Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM114978

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☑ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.:

8. Lease Name and Well No.: FURY ROAD FEDERAL COM 504H

2. Name of Operator: CONOCOPHILLIPS COMPANY

9. API Well No.: 30-015-57484

3a. Address: P.O. BOX 851, PRICE, UT 84501

3b. Phone No. *(include area code)*: (435) 613-9777

10. Field and Pool, or Exploratory: FORTY NINER RIDGE/BONE SPRING

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: NWSE / 1976 FSL / 2336 FEL / LAT 32.288637 / LONG -103.850529

At proposed prod. zone: SESE / 50 FSL / 1232 FWL / LAT 32.254279 / LONG -103.846929

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 23/T23S/R30E/NMP

14. Distance in miles and direction from nearest town or post office*: 13 miles

12. County or Parish: EDDY

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 50 feet

16. No of acres in lease:

17. Spacing Unit dedicated to this well: 1600.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 30 feet

19. Proposed Depth: 9870 feet / 23275 feet

20. BLM/BIA Bond No. in file: FED: ES0085

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3260 feet

22. Approximate date work will start*: 04/01/2026

23. Estimated duration: 30 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature: (Electronic Submission)

Name *(Printed/Typed)*: MAYTE REYES / Ph: (281) 293-1748

Date: 06/04/2025

Title: Regulatory Analyst

Approved by *(Signature)*: (Electronic Submission)

Name *(Printed/Typed)*: CODY LAYTON / Ph: (575) 234-5959

Date: 10/24/2025

Title: Assistant Field Manager Lands & Minerals

Office: Carlsbad Field Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 10/24/2025

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

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Approval Date: 10/24/2025

Additional Operator Remarks

Location of Well

0. SHL: NWSE / 1976 FSL / 2336 FEL / TWSP: 23S / RANGE: 30E / SECTION: 23 / LAT: 32.288637 / LONG: -103.850529 (TVD: 0 feet, MD: 0 feet)

PPP: NESE / 2544 FSL / 1232 FEL / TWSP: 23S / RANGE: 30E / SECTION: 23 / LAT: 32.290197 / LONG: -103.846961 (TVD: 9851 feet, MD: 10221 feet)

PPP: NENE / 1 FNL / 1232 FEL / TWSP: 23S / RANGE: 30E / SECTION: 26 / LAT: 32.283204 / LONG: -103.846938 (TVD: 9870 feet, MD: 13322 feet)

BHL: SESE / 50 FSL / 1232 FWL / TWSP: 23S / RANGE: 30E / SECTION: 35 / LAT: 32.254279 / LONG: -103.846929 (TVD: 9870 feet, MD: 23275 feet)

BLM Point of Contact

Name: JANET D ESTES
Title: ADJUDICATOR
Phone: (575) 234-6233
Email: JESTES@BLM.GOV

PECOS DISTRICT

SURFACE USE

CONDITIONS OF APPROVAL

OPERATOR'S NAME:	ConocoPhillips Company
LEASE NO.:	NMNM114978, NMNM543552
COUNTY:	Eddy County, New Mexico

Wells:

Thunderdome Fed Com 503H

Thunderdome Fed Com 504H

Fury Road Fed Com 522H

Fury Road Fed Com 503H

Fury Road Fed Com 504H

Fury Road Fed Com 523H

Thunderdome Fed Com 501H

Thunderdome Fed Com 502H

Fury Road Fed Com 521H

Fury Road Fed Com 501H

Fury Road Fed Com 502H

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1. GENERAL PROVISIONS

The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

1.1. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the operator, or any person working on the operator's behalf, on the public or federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area (within 100ft) of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer, in conjunction with a BLM Cultural Resource Specialist, to determine appropriate actions to prevent the loss of significant scientific values. The operator shall be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

Traditional Cultural Properties (TCPs) are protected by NHPA as codified in 36 CFR 800 for possessing traditional, religious, and cultural significance tied to a certain group of individuals. Though there are currently no designated TCPs within the project area or within a mile of the project area, but it is possible for a TCP to be designated after the approval of this project. **If a TCP is designated in the project area after the project's approval, the BLM Authorized Officer will notify the operator of the following conditions and the duration for which these conditions are required.**

1. Temporary halting of all construction, drilling, and production activities to lower noise.
2. Temporary shut-off of all artificial lights at night.

The operator is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA), specifically NAGPRA Subpart B regarding discoveries, to protect human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered during project work. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and a BLM-CFO Authorized Officer will be notified immediately. The BLM will then be required to be notified, in writing, within 24 hours of the discovery. The written notification should include the geographic location by county and state, the contents of the discovery, and the steps taken to protect said discovery. You must also include any potential threats to the discovery and a conformation that all activity within 100ft of the discovery has ceased and work will not resume until written certification is issued. All work on the entire project must halt for a minimum of 3 days and work cannot resume until an Authorized Officer grants permission to do so.

Any paleontological resource discovered by the operator, or any person working on the operator's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. The operator will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

1.2. RANGELAND RESOURCES

1.2.1. **Cattleguards**

Where a permanent cattleguard is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during

lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

1.2.2. **Fence Requirement**

Where entry granted across a fence line, the fence must be braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

1.2.3. **Livestock Watering Requirement**

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

1.3. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA, New Mexico Department of Agriculture, and BLM requirements and policies.

1.3.1 African Rue (Peganum harmala)

Spraying: The spraying of African Rue must be completed by a licensed or certified applicator. In order to attempt to kill or remove African Rue the proper mix of chemical is needed. The mix consists of 2% Arsenal (Imazapyr) and 2% Roundup (Glyphosate) along with a nonionic surfactant. Any other chemicals or combinations shall be approved by the BLM Noxious Weeds Coordinator prior to treatment. African Rue shall be sprayed in connection to any dirt working activities or disturbances to the site being sprayed. Spraying of African Rue shall be done on immature plants at initial growth through flowering and mature plants between budding and flowering stages. Spraying shall not be conducted after flowering when plant is fruiting. This will ensure optimal intake of chemical and decrease chances of developing herbicide resistance. After spraying, the operator or necessary parties must contact the Carlsbad Field Office to inspect the effectiveness of the application treatment to the plant species. No ground disturbing activities can take place until the inspection by the authorized officer is complete. The operator may contact the Environmental Protection Department or the BLM Noxious Weed Coordinator at (575) 234-5972 or BLM_NM_CFO_NoxiousWeeds@blm.gov.

Management Practices: In addition to spraying for African Rue, good management practices should be followed. All equipment should be washed off using a power washer in a designated containment area. The containment area shall be bermed to allow for containment of the seed to prevent it from entering any open areas of the nearby landscape. The containment area shall be excavated near or adjacent to the well pad at a depth of three feet and just large enough to get equipment inside it to be washed off. This will allow all seeds to be in a centrally located area that can be treated at a later date if the need arises.

1.4. LIGHT POLLUTION

1.4.1. **Downfacing**

All permanent lighting will be pointed straight down at the ground in order to prevent light spill beyond the edge of approved surface disturbance.

1.4.2. **Shielding**

All permanent lighting will use full cutoff luminaires, which are fully shielded (i.e., not emitting direct or indirect light above an imaginary horizontal plane passing through the lowest part of the light source).

1.4.3. **Lighting Color**

Lighting shall be 3,500 Kelvin or less (Warm White) except during drilling, completion, and workover operations. No bluish-white lighting shall be used in permanent outdoor lighting.

2. SPECIAL REQUIREMENTS

2.1. WATERSHED

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

2.1.1. **Tank Battery**

Tank battery locations will be lined and bermed. A 20-mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Secondary containment holding capacity must be large enough to contain 1 ½ times the content of the largest tank or 24-hourproduction, whichever is greater (displaced volume from all tanks within the berms MUST be subtracted from total volume of containment in calculating holding capacity). Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

2.3 VISUAL RESOURCE MANAGEMENT

2.3.1 **VRM IV**

Above-ground structures including meter housing that are not subject to safety requirements are painted a flat non-reflective paint color, Shale Green or Carlsbad Canyon from the BLM Standard Environmental Color Chart (CC-001: June 2008).

2.4. POTASH RESOURCES

Lessees must comply with the 2012Secretarial Potash Order. The Order is designed to manage the efficient development of oil, gas, and potash resources. Section 6 of the Order provides general provisions which must be followed to minimize conflict between the industries and ensure the safety of operations.

To minimize impacts to potash resources, the proposed well is confined within the boundaries of the established Thunderdome Drill Island.

3. CONSTRUCTION REQUIREMENTS

3.1 CONSTRUCTION NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and COAs on the well site and they shall be made available upon request by the Authorized Officer.

3.2 TOPSOIL

The operator shall strip the topsoil (the A horizon) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. No more than the top 6 inches of topsoil shall be removed. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (the B horizon and below) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

3.3 CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No reserve pits will be used for drill cuttings. The operator shall properly dispose of drilling contents at an authorized disposal site.

3.4 FEDERAL MINERAL PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

3.5 WELL PAD & SURFACING

Any surfacing material used to surface the well pad will be removed at the time of interim and final reclamation.

3.6 EXCLOSURE FENCING (CELLARS & PITS)

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the well cellar is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

The operator will also install and maintain mesh netting for all open well cellars to prevent access to smaller wildlife before and after drilling operations until the well cellar is free of fluids and the operator. Use a maximum netting mesh size of 1 ½ inches. The netting must not have holes or gaps.

5. PRODUCTION (POST DRILLING)

5.1 WELL STRUCTURES & FACILITIES

5.1.1 **Placement of Production Facilities**

Production facilities must be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

5.1.2 **Exclosure Netting (Open-top Tanks)**

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

5.1.4. Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone*.) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

5.1.5. Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

6. RECLAMATION

Stipulations required by the Authorized Officer on specific actions may differ from the following general guidelines

6.1 ROAD AND SITE RECLAMATION

Any roads constructed during the life of the well will have the caliche removed or linear burial. If contaminants are indicated then testing will be required for chlorides and applicable contaminate anomalies for final disposal determination (disposed of in a manner approved by the Authorized Officer within Federal, State and Local statutes, regulations, and ordinances) and seeded to the specifications in sections 6.5 and 6.6.

6.2 EROSION CONTROL

Install erosion control berms, windrows, and hummocks. Windrows must be level and constructed perpendicular to down-slope drainage; steeper slopes will require greater windrow density. Topsoil between windrows must be ripped to a depth of at least 12”, unless bedrock is encountered. Any large

boulders pulled up during ripping must be deep-buried on location. Ripping must be perpendicular to down-slope. The surface must be left rough in order to catch and contain rainfall on-site. Any trenches resulting from erosion cause by run-off shall be addressed immediately.

6.3 INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations must undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators must work with BLM surface protection specialists (BLM_NM_CFO_Construction_Reclamation@blm.gov) to devise the best strategies to reduce the size of the location. Interim reclamation must allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche and any other surface material is required. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided in section 6.6.

Upon completion of interim reclamation, the operator shall submit a Sundry Notice, Subsequent Report of Reclamation (Form 3160-5).

6.4 FINAL ABANDONMENT & RECLAMATION

Prior to surface abandonment, the operator shall submit a Notice of Intent Sundry Notice and reclamation plan.

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding will be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM. After earthwork and seeding is completed, the operator is required to submit a Sundry Notice, Subsequent Report of Reclamation.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (BLM_NM_CFO_Construction_Reclamation@blm.gov).

6.5 SEEDING TECHNIQUES

Seeds shall be hydro-seeded, mechanically drilled, or broadcast, with the broadcast-seeded area raked, ripped or dragged to aid in covering the seed. The seed mixture shall be evenly and uniformly planted over the disturbed area.

6.6 SOIL SPECIFIC SEED MIXTURE

The lessee/permitee shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed land application will be accomplished by mechanical planting using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area. Smaller/heavier seeds tend to drop the bottom of the drill and are planted first; the operator shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory BLM or Soil Conservation

District stand is established as determined by the Authorized Officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding or until several months of precipitation have occurred, enabling a full four months of growth, with one or more seed generations being established.

Seed Mixture 2, for Sandy Site

Species to be planted in pounds of pure live seed* per acre:

Species	lb/acre
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

Approval Date: 10/24/2025

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	FURY ROAD FED COM 504H
LOCATION:	Section 23, T.23 S., R.30 E., NMP
COUNTY:	Eddy County, New Mexico

COA

H_2S	○ No		◉ Yes	
Potash / WIPP	○ None	○ Secretary	◉ R-111-Q	☐ Open Annulus
	3-String Design: Open Production Casing Annulus			☐ WIPP
Cave / Karst	◉ Low	○ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☑ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☑ COM	☐ Unit
Waste Prev.	○ Self-Certification	◉ Waste Min. Plan	○ APD Submitted prior to 06/10/2024	
Additional Language	☑ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☑ Break Testing
	☐ Four-String	☑ Offline Cementing	☐ Fluid-Filled	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

APD is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the updated order.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **108 feet per BLM Geologist** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

   a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
   b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours**

Approval Date: 10/24/2025

or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)

c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

Option 1 (Primary + Post Frac Bradenhead):

- **A monitored open annulus will be incorporated during completion by leaving the Intermediate x Production annulus un-cemented and monitored inside the Intermediate String.** Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within **180 days.**

Operator has proposed to pump down **intermediate x production** annulus post completion. **Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the intermediate 2/production casing to surface after the second stage BH to verify TOC.** Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry during second stage bradenhead when running Echo-meter if cement is required to surface. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. **Submit results to the BLM. Pressure monitoring device and Pressure Safety Valves must be installed at surface on both the intermediate annulus and the production annulus for the life of the well.**

In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and (575-361-2822 Eddy County).

- **After bradenhead mentioned above** cement should tie-back **500 feet** into the previous casing but not higher than USGS Marker Bed No. 126. **Operator must verify top of cement per R-111-Q requirements.** Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

    - Cement should tie-back **500 feet** into the previous casing but not higher than USGS Marker Bed No. 126. **Operator must verify top of cement per R-111-Q requirements.** Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
    e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM_NM_CFO_DrillingNotifications@BLM.GOV**; (575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
    a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure

rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).

b. When the operator proposes to set surface casing with Spudder Rig
   i. Notify the BLM when moving in and removing the Spudder Rig.
   ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
   iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing

integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
iii. Manufacturer representative shall install the test plug for the initial BOP test.
iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
   i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
   ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
   iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
   iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M

BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

v. The results of the test shall be reported to the appropriate BLM office.
vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JS 10/24/2025

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U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Application Data
10/29/2025

APD ID: 10400105277
Submission Date: 06/04/2025
Operator Name: CONOCOPHILLIPS COMPANY
Well Name: FURY ROAD FEDERAL COM
Well Number: 504H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - General

APD ID: 10400105277
Tie to previous NOS? N
Submission Date: 06/04/2025
BLM Office: Carlsbad
User: MAYTE REYES
Title: Regulatory Analyst
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMNM114978
Lease Acres:
Surface access agreement in place?
Allotted?
Reservation:
Agreement in place? NO
Federal or Indian agreement:
Agreement number:
Agreement name:
Keep application confidential? YES
Permitting Agent? NO
APD Operator: CONOCOPHILLIPS COMPANY
Operator letter of

Operator Info

Operator Organization Name: CONOCOPHILLIPS COMPANY
Operator Address: P.O. BOX 851
Zip: 84501
Operator PO Box: P.O. BOX 851
Operator City: PRICE
State: UT
Operator Phone: (435)613-9777
Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO
Master Development Plan name:
Well in Master SUPO? NO
Master SUPO name:
Well in Master Drilling Plan? NO
Master Drilling Plan name:
Well Name: FURY ROAD FEDERAL COM
Well Number: 504H
Well API Number:
Field/Pool or Exploratory? Field and Pool
Field Name: FORTY NINER RIDGE
Pool Name: BONE SPRING

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** N **New surface disturbance?**

Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** FURY ROAD FEDERAL COM **Number:** 503H, 504H, 522H and 523H

Well Class: HORIZONTAL **Number of Legs:** 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 13 Miles **Distance to nearest well:** 30 FT **Distance to lease line:** 50 FT

Reservoir well spacing assigned acres Measurement: 1600 Acres

Well plat: COP_Fury_Road_504H_C102_20250721145749.pdf

NEW_COP_Fury_Road_504H_C102_20250904122626.pdf

Well work start Date: 04/01/2026 **Duration:** 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number: **Reference Datum:** GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	1976	FSL	2336	FEL	23S	30E	23	Aliquot NWSE	32.288637	-103.850529	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 114978	3260			Y
KOP Leg #1	1976	FSL	2336	FEL	23S	30E	23	Aliquot NWSE	32.288637	-103.850529	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 114978	3260	0	0	Y

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-1	1	FNL	1232	FEL	23S	30E	26	Aliquot NENE	32.283204	-103.846938	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 114978	-6610	13322	9870	Y
PPP Leg #1-2	2544	FSL	1232	FEL	23S	30E	23	Aliquot NESE	32.290197	-103.846961	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 0546316	-6591	10221	9851	Y
EXIT Leg #1	100	FSL	1232	FEL	23S	30E	35	Aliquot SESE	32.254416	-103.846929	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 0531277A	-6610	23200	9870	Y
BHL Leg #1	50	FSL	1232	FWL	23S	30E	35	Aliquot SESE	32.254279	-103.846929	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 0531277A	-6610	23275	9870	Y

AFMSS
U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

APD Print Report
10/29/2025

APD ID: 10400105277
Operator Name: CONOCOPHILLIPS COMPANY
Well Name: FURY ROAD FEDERAL COM
Well Type: OIL WELL

Submission Date: 06/04/2025
Federal/Indian APD: FED
Well Number: 504H
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Application

Section 1 - General

APD ID: 10400105277
Tie to previous NOS? N
Submission Date: 06/04/2025
BLM Office: Carlsbad
User: MAYTE REYES
Title: Regulatory Analyst
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMNM114978
Lease Acres:
Surface access agreement in place?
Allotted?
Reservation:
Agreement in place? NO
Federal or Indian agreement:
Agreement number:
Agreement name:
Keep application confidential? YES
Permitting Agent? NO
APD Operator: CONOCOPHILLIPS COMPANY
Operator letter of

Operator Info

Operator Organization Name: CONOCOPHILLIPS COMPANY
Operator Address: P.O. BOX 851
Zip: 84501
Operator PO Box: P.O. BOX 851
Operator City: PRICE
State: UT
Operator Phone: (435)613-9777
Operator Internet Address:

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Section 2 - Well Information

Well in Master Development Plan? NO **Master Development Plan name:**

Well in Master SUPO? NO **Master SUPO name:**

Well in Master Drilling Plan? NO **Master Drilling Plan name:**

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H **Well API Number:**

Field/Pool or Exploratory? Field and Pool **Field Name:** FORTY NINER RIDGE **Pool Name:** BONE SPRING

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** N **New surface disturbance?**

Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** FURY ROAD FEDERAL COM **Number:** 503H, 504H, 522H and 523H

Well Class: HORIZONTAL **Number of Legs:** 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 13 Miles **Distance to nearest well:** 30 FT **Distance to lease line:** 50 FT

Reservoir well spacing assigned acres Measurement: 1600 Acres

Well plat: COP_Fury_Road_504H_C102_20250721145749.pdf

NEW_COP_Fury_Road_504H_C102_20250904122626.pdf

Well work start Date: 04/01/2026 **Duration:** 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number: **Reference Datum:** GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	1976	FSL	2336	FEL	23S	30E	23	Aliquot NWSE	32.288637	-103.850529	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 114978	3260			Y
KOP Leg #1	1976	FSL	2336	FEL	23S	30E	23	Aliquot NWSE	32.288637	-103.850529	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 114978	3260	0	0	Y
PPP Leg #1-1	1	FNL	1232	FEL	23S	30E	26	Aliquot NENE	32.283204	-103.846938	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 114978	-6610	13322	9870	Y
PPP Leg #1-2	2544	FSL	1232	FEL	23S	30E	23	Aliquot NESE	32.290197	-103.846961	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 0546316	-6591	10221	9851	Y
EXIT Leg #1	100	FSL	1232	FEL	23S	30E	35	Aliquot SESE	32.254416	-103.846929	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 0531277A	-6610	23200	9870	Y
BHL Leg #1	50	FSL	1232	FWL	23S	30E	35	Aliquot SESE	32.254279	-103.846929	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 0531277A	-6610	23275	9870	Y

Drilling Plan

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16660454	QUATERNARY	3260	0	0	ALLUVIUM	NONE	N
16660449	RUSTLER	3118	142	142	ANHYDRITE	USEABLE WATER	N
16660450	TOP SALT	2775	485	485	SALT	NONE	N
16660472	---	1975	1285	1285	HALITE, OTHER : 5% Clay	NONE	N
16660459	BASE OF SALT	-375	3635	3635	SALT	NONE	N
16660452	LAMAR	-543	3803	3803	LIMESTONE	NONE	N
16660453	BELL CANYON	-625	3885	3885	SANDSTONE	NONE	N

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16660460	CHERRY CANYON	-1562	4822	4822	SANDSTONE	NATURAL GAS, OIL	N
16660461	BRUSHY CANYON	-2837	6097	6097	SANDSTONE	NATURAL GAS, OIL	N
16660456	BONE SPRING	-4429	7689	7689	SANDSTONE	NATURAL GAS, OIL	N
16660463	BONE SPRING 1ST	-5479	8739	8739	SANDSTONE	NATURAL GAS, OIL	N
16660464	BONE SPRING 2ND	-6210	9470	9470	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M **Rating Depth:** 9725

Equipment: Annular, Blind Ram, Pipe Ram, Double Ram. The BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.
Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to choke manifold. See attached for specs and hydrostatic test chart. A variance is requested for use of a multi-bowl wellhead. A variance is requested to allow for break testing during batch drilling.
Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.
Choke Diagram Attachment:

COP_Fury_Road_5M_Choke_20250528212739.pdf

NEW_COP_Fury_Road_5M_Choke_20250904123129.pdf

BOP Diagram Attachment:

COP_Fury_Road_5M_BOP_20250528212804.pdf

COP_Fury_Road_Flex_Hose_Variance_20250528212806.pdf

NEW_COP_Fury_Road_5M_BOP_20250904123147.pdf

NEW_COP_Fury_Road_Flex_Hose_Variance_20250904123148.pdf

Pressure Rating (PSI): 5M **Rating Depth:** 3700

Equipment: Annular, Blind Ram, Pipe Ram, Double Ram. The BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.
Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to choke manifold. See attached for specs and hydrostatic test chart. A variance is requested for use of a multi-bowl wellhead. A variance is requested to allow for break testing during batch drilling.

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Choke Diagram Attachment:

COP_Fury_Road_10M_Choke_20250528212846.pdf

NEW_COP_Fury_Road_10M_Choke_20250904123209.pdf

BOP Diagram Attachment:

COP_Fury_Road_10M_BOP_20250528212909.pdf

COP_Fury_Road_Flex_Hose_Variance_20250528212911.pdf

NEW_COP_Fury_Road_10M_BOP_20250904123223.pdf

NEW_COP_Fury_Road_Flex_Hose_Variance_20250904123224.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	250	0	250	3260	3010	250	J-55	54.5	OTHER - BTC	9.88	1.74	DRY	66.72	DRY	66.72
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3725	0	3725	3585	-465	3725	OTHER - L80-IC	40	OTHER - BTC	2	1.48	DRY	6.36	DRY	6.36
3	PRODUCTION	7.875	5.5	NEW	API	N	0	23275	0	9870	3585	-6610	23275	OTHER - P110-CY	23	OTHER - TXP BTC	2.98	3.74	DRY	3.21	DRY	3.21

Casing Attachments

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COP_Fury_Road_504H_Casing_Program_20250603142922.pdf

NEW_COP_Fury_Road_504H_Casing_Program_20250904123313.pdf

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COP_Fury_Road_504H_Casing_Program_20250603143006.pdf

NEW_COP_Fury_Road_504H_Casing_Program_20250904123324.pdf

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COP_Fury_Road_504H_Casing_Program_20250603142857.pdf

NEW_COP_Fury_Road_504H_Casing_Program_20250904123302.pdf

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Casing Attachments

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	250	90	1.75	13.5	157	50	Class C	As needed
SURFACE	Tail		250	250	179	1.35	14.8	241	50	Class C	As needed
INTERMEDIATE	Lead		3700	3700	720	1.8	12.8	1296	50	Class C	As needed
INTERMEDIATE	Tail		3700	3700	351	1.34	14.8	470	50	Class C	As needed
PRODUCTION	Lead		9870	23275	690	2.98	10.2	2056	0	Tuned Light	As needed
PRODUCTION	Tail		9870	23275	1640	1.42	13.2	2328	0	Class H	As needed

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
250	3725	OTHER : Saturated Brine	9	10							Saturated Brine
3725	23275	OIL-BASED MUD	8.6	9.5							OBM
0	250	OTHER : Fresh water gel	8.6	8.8							Fresh water gel

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

None planned

List of open and cased hole logs run in the well:

CEMENT BOND LOG,COMPENSATED NEUTRON LOG,GAMMA RAY LOG,

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4880 **Anticipated Surface Pressure:** 2708

Anticipated Bottom Hole Temperature(F): 155

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

COP_Fury_Road_H2S_Plan_20250528215707.pdf

COP_Fury_Road_503H_504H_522H_523H_H2S_Schematic_20250603144222.pdf

NEW_COP_Fury_Road_503H_504H_522H_523H_H2S_Schematic_20250904123356.pdf

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

NEW_COP_Fury_Road_H2S_Plan_20250904123407.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

COP_Fury_Road_504H_AC_Report_20250603145946.pdf
COP_Fury_Road_504H_Directional_Plan_20250603145946.pdf
NEW_COP_Fury_Road_504H_AC_Report_20250904123544.pdf
NEW_COP_Fury_Road_504H_Directional_Plan_20250904123545.pdf

Other proposed operations facets description:

Drilling Plan attached.
GCP attached.
Cement Plan attached.

Other proposed operations facets attachment:

COP_BOP_Break_Testing_Documentation_6_07_23_20250122084643.pdf
COP_Offline_Bradenhead_Intermediate_Documentation_3_11_23__Rev2_20250122084645.pdf
Fury_Road_R111Q_Clarification___3_String_20250528220231.pdf
R_111_Q___3_String___Open_20250408140441.pdf
Tenaris_Data_Sheets___3_String_Pot_Ash___BSS___State_Line___23__P110_CY_Prod_20250528220227.pdf
COP_Fury_Road_504H_GCP_20250603145851.pdf
COP_Fury_Road_504H_Casing_Program_20250603145913.pdf
COP_Fury_Road_504H_Drilling_Program_20250603145914.pdf
COP_Fury_Road_504H_Cement_Program_20250603145914.pdf
NEW_COP_BOP_Break_Testing_Documentation_6_07_23_20250904123435.pdf
NEW_Tenaris_Data_Sheets___3_String_Pot_Ash___BSS___State_Line___23__P110_CY_Prod_20250904123436.pd
NEW_Fury_Road_R111Q_Clarification___3_String_20250904123436.pdf
NEW_R_111_Q___3_String___Open_20250904123436.pdf
NEW_COP_Offline_Bradenhead_Intermediate_Documentation_3_11_23__Rev2_20250904123437.pdf
NEW_COP_Fury_Road_504H_Casing_Program_20250904123455.pdf
NEW_COP_Fury_Road_504H_Cement_Program_20250904123456.pdf
NEW_COP_Fury_Road_504H_Drilling_Program_20250904123456.pdf
NEW_COP_Fury_Road_504H_GCP_20250904123511.pdf

Other Variance request(s)?: Y

Other Variance attachment:

COG_6.75_5M_Variance_WCP_20230621084732.pdf

SUPO

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

COP_Fury_Road_Fed_Com__Existing_Road_20250528220603.pdf

NEW_COP_Fury_Road_Fed_Com__Existing_Road_20250904123609.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT **Row(s) Exist?** NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: Existing roads will be maintained in the same condition or better. Roads were previously approved with Thunderdome Federal Com APDs.

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

COP_Fury_Road_Fed_Com_Access_Roads_20250528221728.pdf

NEW_COP_Fury_Road_Fed_Com_Access_Roads_20250904123631.pdf

New road type: RESOURCE

Length: 0 Feet **Width (ft.):** 30

Max slope (%): 33 **Max grade (%):** 1

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 20

New road access erosion control: Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns.

New road access plan or profile prepared? N

New road access plan

Access road engineering design? N

Access road engineering design

Turnout? N

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Blading

Access other construction information: No turnouts are planned.

Access miscellaneous information: No new road need. Previously approved with old Thunderdome Federal Com APDs

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Other Description: None necessary

Drainage Control comments: None necessary

Road Drainage Control Structures (DCS) description: None needed.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Existing Well map Attachment:

COP_Fury_Road_504H_1_Mile_Data_20250603120453.pdf
NEW_COP_Fury_Road_504H_1_Mile_Data_20250904123649.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Thunderdome/Fury Road Fed Com CTB 2. This CTB will be built to accommodate the Fury Road Fed Com #501H, #502H, #521H, #503H, #504H, #522H, #523H. We plan to install (1) buried 6 Flexpipe (FP) 601HT production flowline with MAWP of 1350 psi from each wellhead to the inlet manifold of the proposed CTB (7 lines total); the route for these flowlines will follow the flowlines route as shown in the diagram below. We will install (1) buried 6 FP 601 gas line for gas lift supply with MAWP of 1350 psi from the CTB to the well pads; the route for the gas lift lines will follow the gas lift route as shown in layout below. We will install (1) buried 6 FP 601 liquid return line with MAWP of 1350 psi for compressor liquids from the well pads to the CTB; the route for the liquid return lines will follow the liquid return route as shown in layout attached.

Production Facilities map:

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

COP_Fury_Road_Fed_Com_Flowline_20250528221905.pdf
COP_Fury_Road_Fed_Com_Powerlines_20250528221905.pdf
COP_Fury_Road_Fed_Com_CTB_2_20250707112558.pdf
NEW_COP_Fury_Road_503H_504H_522H_523H_Closed_Loop_20250904123709.pdf
COP_Fury_Road_503H_504H_522H_523H_Layout_20250904123728.pdf
NEW_COP_Fury_Road_Fed_Com_CTB_2_20250904123749.pdf
NEW_COP_Fury_Road_Fed_Com_Flowline_20250904123749.pdf
NEW_COP_Fury_Road_Fed_Com_Powerlines_20250904123750.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: Brine Water

Water source use type: INTERMEDIATE/PRODUCTION CASING

Source latitude: **Source longitude:**

Source datum:

City:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: COMMERCIAL

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 30000 **Source volume (acre-feet):** 3.866793

Source volume (gal): 1260000

Water source type: OTHER

Describe type: Fresh Water

Water source use type: SURFACE CASING

STIMULATION

ICE PAD CONSTRUCTION & MAINTENANCE

Source latitude: **Source longitude:**

Source datum:

City:

Water source permit type: PRIVATE CONTRACT

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Water source transport method: PIPELINE

Source land ownership: PRIVATE

Source transportation land ownership: PRIVATE

Water source volume (barrels): 450000 **Source volume (acre-feet):** 58.001892

Source volume (gal): 18900000

Water source and transportation

COP_Fury_Road_Brine_H2O_20250528221957.pdf
COP_Fury_Road_Fresh_H2O_20250528221959.pdf
NEW_COP_Fury_Road_Brine_H2O_20250904123812.pdf
NEW_COP_Fury_Road_Fresh_H2O_20250904123813.pdf

Water source comments: See attached maps

New water well? N

New Water Well Info

Well latitude: **Well Longitude:** **Well datum:**

Well target aquifer:

Est. depth to top of aquifer(ft): **Est thickness of aquifer:**

Aquifer comments:

Aquifer documentation:

Well depth (ft): **Well casing type:**

Well casing outside diameter (in.): **Well casing inside diameter (in.):**

New water well casing? **Used casing source:**

Drilling method: **Drill material:**

Grout material: **Grout depth:**

Casing length (ft.): **Casing top depth (ft.):**

Well Production type: **Completion Method:**

Water well additional information:

State appropriation permit:

Additional information attachment:

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Caliche will be obtained from the actual well site. If caliche does not exist or is not plentiful from the well site, the caliche source will be from a BLM caliche pit, located in the NWSW of Section 20. T23S. R31E. SE of 98-1 Mills Ranch Road in Sec 12. T23S. R30E. NWNE.
Construction Materials source location

Section 7 - Methods for Handling

Waste type: GARBAGE

Waste content description: Garbage and trash produced during drilling and completion operations.

Amount of waste: 500 pounds

Waste disposal frequency : One Time Only

Safe containment description: Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility
Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL
Disposal type description:

Disposal location description: Trucked to an approved disposal facility.

Waste type: DRILLING

Waste content description: Drilling fluids and produced oil land water while drilling and completion operations

Amount of waste: 6000 barrels

Waste disposal frequency : One Time Only

Safe containment description: All drilling waste will be stored safely and disposed of properly

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL
Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Waste type: SEWAGE

Waste content description: Human waste and gray water

Amount of waste: 1000 gallons

Waste disposal frequency : One Time Only

Safe containment description: Waste will be properly contained and disposed of properly at a state approved disposal facility.
Safe containmant attachment:

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Waste disposal type: HAUL TO COMMERCIAL **Disposal location ownership:** PRIVATE FACILITY

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location Roll off cutting containers on tracks

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

Is at least 50% of the cuttings area in cut?

Cuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments: Gas Capture Plan attached

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Section 9 - Well Site

Well Site Layout Diagram:

COP_Fury_Road_503H_504H_522H_523H_H2S_Schematic_20250603150104.pdf

COP_Fury_Road_503H_504H_522H_523H_Layout_20250603150104.pdf

NEW_COP_Fury_Road_503H_504H_522H_523H_H2S_Schematic_20250904123857.pdf

NEW_COP_Fury_Road_503H_504H_522H_523H_Layout_20250904123858.pdf

Comments:

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: FURY ROAD FEDERAL COM

Multiple Well Pad Number: 503H, 504H, 522H and 523H

Recontouring

COP_Fury_Road_503H_504H_522H_523H_Reclamation_20250603120639.pdf

NEW_COP_Fury_Road_503H_504H_522H_523H_Reclamation_20250904123912.pdf

Drainage/Erosion control construction: Proper erosion control methods will be used at the well site to control erosion, runoff, and siltation of the surrounding area. Straw waddles will be used as necessary at the well site to reduce sediment impacts to fragile/sensitive soils.

Drainage/Erosion control reclamation: The wellsite drainage will be monitored periodically to ensure that vegetation has re-established in unused areas of the pad and that erosion is controlled.

Well pad proposed disturbance (acres): 15.42 **Well pad interim reclamation (acres):** 0.98 **Well pad long term disturbance (acres):** 14.44

Road proposed disturbance (acres): 0 **Road interim reclamation (acres):** 0 **Road long term disturbance (acres):** 0

Powerline proposed disturbance (acres): 2.55 **Powerline interim reclamation (acres):** 0 **Powerline long term disturbance (acres):** 2.55

Pipeline proposed disturbance (acres): 0.89 **Pipeline interim reclamation (acres):** 0 **Pipeline long term disturbance (acres):** 0.89

Other proposed disturbance (acres): 5.74 **Other interim reclamation (acres):** 0 **Other long term disturbance (acres):** 5.74

Total proposed disturbance: 24.6 **Total interim reclamation:** 0.98 **Total long term disturbance:** 23.619999999999997

Disturbance Comments:

Reconstruction method: If needed, portions of the pad not needed for production operations will be re-contoured to its original state as much as possible. The caliche that is removed will be reused. The stockpiled topsoil will be spread out over reclaimed area and reseeded with BLM approved seed mixture.

Topsoil redistribution: West

Soil treatment: None

Existing Vegetation at the well pad: Shinnery Oak/Mesquite grassland

Existing Vegetation at the well pad

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Existing Vegetation Community at the road: Shinnery Oak/Mesquite grassland

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: Shinnery Oak/Mesquite grassland

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: N/A

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation

Operator Contact/Responsible Official

First Name: Chris **Last Name:** Moon

Phone: (432)288-2283 **Email:** chris.moon@cop.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Existing invasive species treatment description:

Existing invasive species treatment

Weed treatment plan description: COP will maintain well pad and CTB with chemical treatment as necessary.

Weed treatment plan

Monitoring plan description: N/A

Monitoring plan

Success standards: N/A

Pit closure description: N/A

Pit closure attachment:

COP_Fury_Road_503H_504H_522H_523H_Closed_Loop_20250603150123.pdf
NEW_COP_Fury_Road_503H_504H_522H_523H_Closed_Loop_20250904123925.pdf

Section 11 - Surface

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Section 12 - Other

Right of Way needed? N **Use APD as ROW?**

ROW Type(s):

ROW

SUPO Additional Information: Federal Surface. Surface Use & Operating Plan. Attached. On-site was done by Gerald Herrera (COG); Zane Kirsch (BLM); on December 6th, 2023.
Use a previously conducted onsite? N

Previous Onsite information:

Other SUPO

COP_Fury_Road_Brine_H2O_20250603110334.pdf
COP_Fury_Road_Fed_Com_Access_Roads_20250603110335.pdf
COP_Fury_Road_Fed_Com_Flowline_20250603110334.pdf
COP_Fury_Road_Fed_Com_Powerlines_20250603110334.pdf
COP_Fury_Road_Fed_Com__Existing_Road_20250603110333.pdf
COP_Fury_Road_Fresh_H2O_20250603110334.pdf
COP_Fury_Road_SUP_20250603110333.pdf
COP_Fury_Road_504H_1_Mile_Data_20250603120826.pdf
COP_Fury_Road_503H_504H_522H_523H_Layout_20250603120853.pdf
COP_Fury_Road_503H_504H_522H_523H_Reclamation_20250603120854.pdf
COP_Fury_Road_503H_504H_522H_523H_Closed_Loop_20250603150210.pdf
COP_Fury_Road_503H_504H_522H_523H_H2S_Schematic_20250603150210.pdf
COP_Fury_Road_Fed_Com_CTB_2_20250707112618.pdf
COP_Fury_Road_504H_C102_20250721145810.pdf
NEW_COP_Fury_Road_503H_504H_522H_523H_Closed_Loop_20250904124018.pdf
NEW_COP_Fury_Road_503H_504H_522H_523H_Reclamation_20250904124018.pdf
NEW_COP_Fury_Road_503H_504H_522H_523H_H2S_Schematic_20250904124020.pdf
NEW_COP_Fury_Road_503H_504H_522H_523H_Layout_20250904124020.pdf
NEW_COP_Fury_Road_504H_1_Mile_Data_20250904124101.pdf
NEW_COP_Fury_Road_504H_C102_20250904124101.pdf
NEW_COP_Fury_Road_Fed_Com__Existing_Road_20250904124312.pdf
NEW_COP_Fury_Road_SUP_20250904124314.pdf
NEW_COP_Fury_Road_Fed_Com_CTB_2_20250904124315.pdf

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

NEW_COP_Fury_Road_Fed_Com_Flowline_20250904124315.pdf
NEW_COP_Fury_Road_Fed_Com_Powerlines_20250904124315.pdf
NEW_COP_Fury_Road_Fresh_H2O_20250904124316.pdf
NEW_COP_Fury_Road_Brine_H2O_20250904124316.pdf
NEW_COP_Fury_Road_Fed_Com_Access_Roads_20250904124319.pdf

PWD

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD Surface Owner Description:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Lined pit reclamation

Leak detection system description:

Leak detection system

Lined pit Monitor description:

Lined pit Monitor

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): **PWD surface owner:**

Other PWD Surface Owner Description:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

Do you propose to put the produced water to beneficial use?

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Precipitated Solids Permit

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic

State

Unlined Produced Water Pit Estimated

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD Surface Owner Description:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: **Injection well name:**

Assigned injection well API number? **Injection well API number:**

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD Surface Owner Description :

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

PWD Surface Owner Description:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

Bond Info

Bond

Federal/Indian APD: FED

BLM Bond number: ES0085

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond amount:

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Operator Certification

Payment Info

Payment

APD Fee Payment Method: PAY.GOV

pay.gov Tracking ID: 27OKMJP1

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 Submittal Type: ☑ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015- 57484	~~24720~~ 96526	Forty Niner Ridge; Bone Spring, West

Property Code	Property Name	Well Number
337803	FURY ROAD FED COM	504H

OGRID No.	Operator Name	Ground Level Elevation
217817	CONOCOPHILLIPS COMPANY	3,260'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal | Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
J	23	23S	30E		1,976' FSL	2,336' FEL	32.288637°	-103.850529°	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	35	23S	30E		50' FSL	1,232' FEL	32.254279°	-103.846929°	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
1600	Defining	Pending	Y	

Order Numbers. | Well setbacks are under Common Ownership: ☐Yes ☐No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
J	23	23S	30E		1,976' FSL	2,336' FEL	32.288637°	-103.850529°	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	23	23S	30E		2,544' FSL	1,232' FEL	32.290197°	-103.846961°	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	35	23S	30E		100' FSL	1,232' FEL	32.254416°	-103.846929°	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
COM		3260'

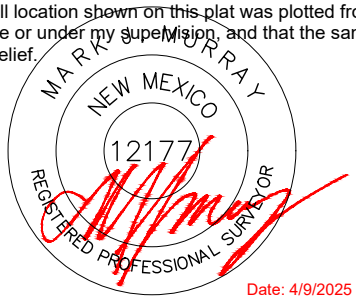
OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.



Date: 4/9/2025

Signature	Date	Signature and Seal of Professional Surveyor
Mayte Reyes	5/28/2025	

Printed Name	Certificate Number	Date of Survey
Mayte Reyes	12177	4/9/2025

Email Address mayte.x.reyes@conocophillips.com

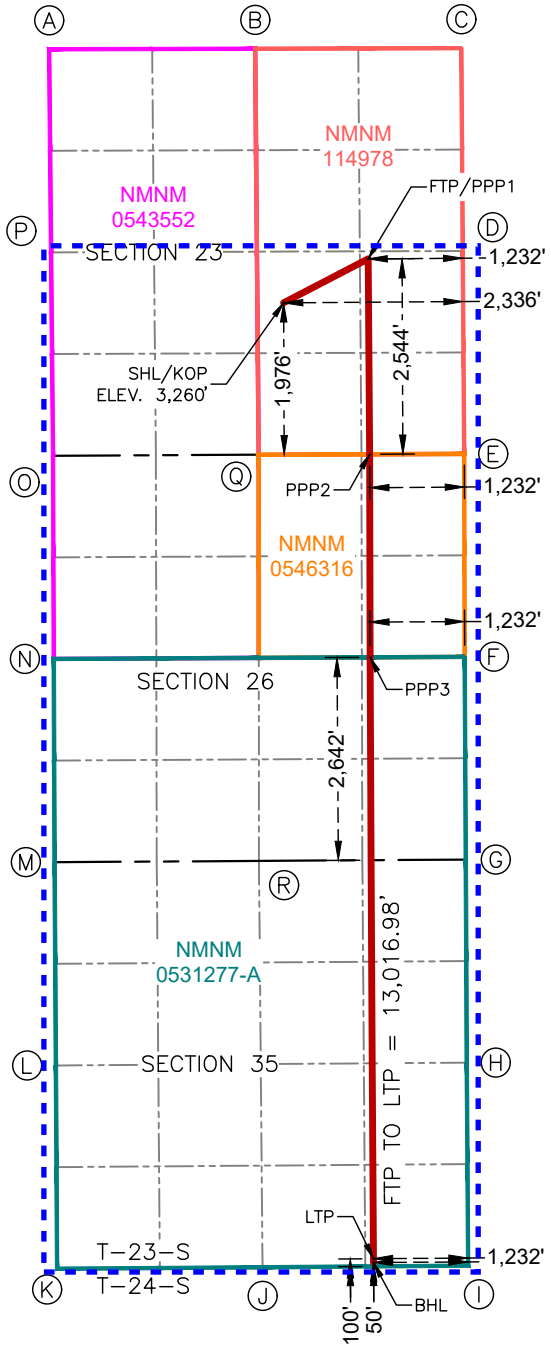
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

FURY ROAD FED COM 504H



SURFACE HOLE LOCATION
& KICK-OFF POINT
1,976' FSL & 2,336' FEL
ELEV.=3,260'

NAD 83 X = 690,531.16'
NAD 83 Y = 469,074.74'
NAD 83 LAT = 32.288637°
NAD 83 LONG = -103.850529°

PENETRATION POINT 3
2,642' FSL & 1,232' FEL

NAD 83 X = 691,656.17'
NAD 83 Y = 464,460.09'
NAD 83 LAT = 32.275939°
NAD 83 LONG = -103.846956°

FIRST TAKE POINT &
PENETRATION POINT 1
2,544' FSL & 1,232' FEL

NAD 83 X = 691,630.97'
NAD 83 Y = 469,647.26'
NAD 83 LAT = 32.290197°
NAD 83 LONG = -103.846961°

LAST TAKE POINT
100' FSL & 1,232' FEL

NAD 83 X = 691,700.02'
NAD 83 Y = 456,630.48'
NAD 83 LAT = 32.254416°
NAD 83 LONG = -103.846929°

PENETRATION POINT 2
0' FNL & 1,232' FEL

NAD 83 X = 691,649.71'
NAD 83 Y = 467,103.31'
NAD 83 LAT = 32.283204°
NAD 83 LONG = -103.846938°

BOTTOM HOLE LOCATION
50' FSL & 1,232' FEL

NAD 83 X = 691,700.35'
NAD 83 Y = 456,580.48'
NAD 83 LAT = 32.254279°
NAD 83 LONG = -103.846929°

CORNER COORDINATES
NEW MEXICO EAST - NAD 83

A	IRON ROD W/CAP N:472,376.66' E:687,479.54'	F	2" BRASS CAP N:464,466.38' E:692,888.16'	K	3" BRASS CAP N:456,499.48' E:687,582.99'	P	IRON ROD W/CAP N:469,732.12' E:687,504.28'
B	BENT IRON ROD W/CAP N:472,383.64' E:690,161.18'	G	CALCULATED CORNER N:461,826.71' E:692,901.77'	L	2" BRASS CAP N:459,146.01' E:687,566.55'	Q	IRON ROD W/CAP N:467,097.47' E:690,206.32'
C	IRON ROD W/CAP N:472,390.77' E:692,844.23'	H	2" BRASS CAP N:459,182.82' E:692,915.41'	M	2" BRASS CAP N:461,793.64' E:687,549.74'	R	2" BRASS CAP N:461,808.81' E:690,210.00'
D	IRON ROD W/CAP N:469,750.12' E:692,862.25'	I	3" BRASS CAP N:456,540.55' E:692,932.64'	N	CALCULATED CORNER N:464,439.06' E:687,539.26'		
E	CALCULATED CORNER N:467,108.30' E:692,881.70'	J	2" BRASS CAP N:456,518.68' E:690,256.75'	O	IRON ROD W/CAP N:467,084.70' E:687,530.34'		

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: CONOCOPHILLIPS **OGRID:** 217817 **Date:** 5 / 28 / 25

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Fury Road Federal Com 504H	30-015-	J-23-23S-30E	1976 FSL & 2336 FEL	± 1532	± 2220	± 4587

IV. Central Delivery Point Name: _____ [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Fury Road Federal Com 504H	Pending	12/1/2026	± 25 days from spud	3/31/2027	4/10/2027	4/15/2027

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

All ConocoPhillips production facility equipment will be sized per industry standards (API 12J) with adequate retention time to effectively separate all phases of production. Each project will take into consideration the number of wells and type curves for each formation pool to ensure adequate facility capacity. Design considerations will also include review of all piping, tanks, VRU's and associated equipment to ensure optimized gas capture minimized risk of release.

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

- During drilling, flare stacks will be located a minimum of 100 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety, and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.

C. Completion Operations

- During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
- Individual well test separators will be set to properly separate gas and liquids. A temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline.

D. Venting and flaring during production operations

- During each phase of well life (drilling, completion and production) of a ConocoPhillips well, COP personnel will follow all necessary procedures to ensure both the operation and the equipment are within the NMAC 19.15.27.8 Subsection D guidelines.
- During well operations that require unloading of the well to atmospheric pressure, all reasonable actions will be taken to minimize vented gas
- Through the life of the well all flaring shall be measured, and venting events quantified using the data available and industry best practice.

E. Performance standards for separation, storage tank and flare equipment

- All storage tanks and separation equipment are designed minimize risk of liquid or vapor release and optimize gas capture. This includes automation for automatic gauging and pressure monitoring.

- All flare stacks are equipped with auto ignition devices and/or continuous pilots and are designed to operate at maximum combustion efficiency pursuant NMAC 19.15.27.8 Subsection E. Flares will follow COP spacing guidelines to ensure they are a safe distance from combustibles and operations equipment.
- COP personnel will conduct routine AVO inspections on a regular basis per NMAC 19.15.27.8 Subsection E guidelines.

F. Measurement of vented and flared natural gas.

- Measurement equipment will be installed to quantify gas flared during drilling, completion and production of the well.
- All measurement devices installed will meet accuracy ratings per AGA and API standards.
- Measurement devices will be installed without manifolds that allow diversion of gas around the metering element, except for the sole purpose of inspection of servicing the measurement device.

VIII. Best Management Practices

- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize blowdowns to atmosphere
- When feasible, Operator will use electric or air actuated equipment to reduce bleed emissions

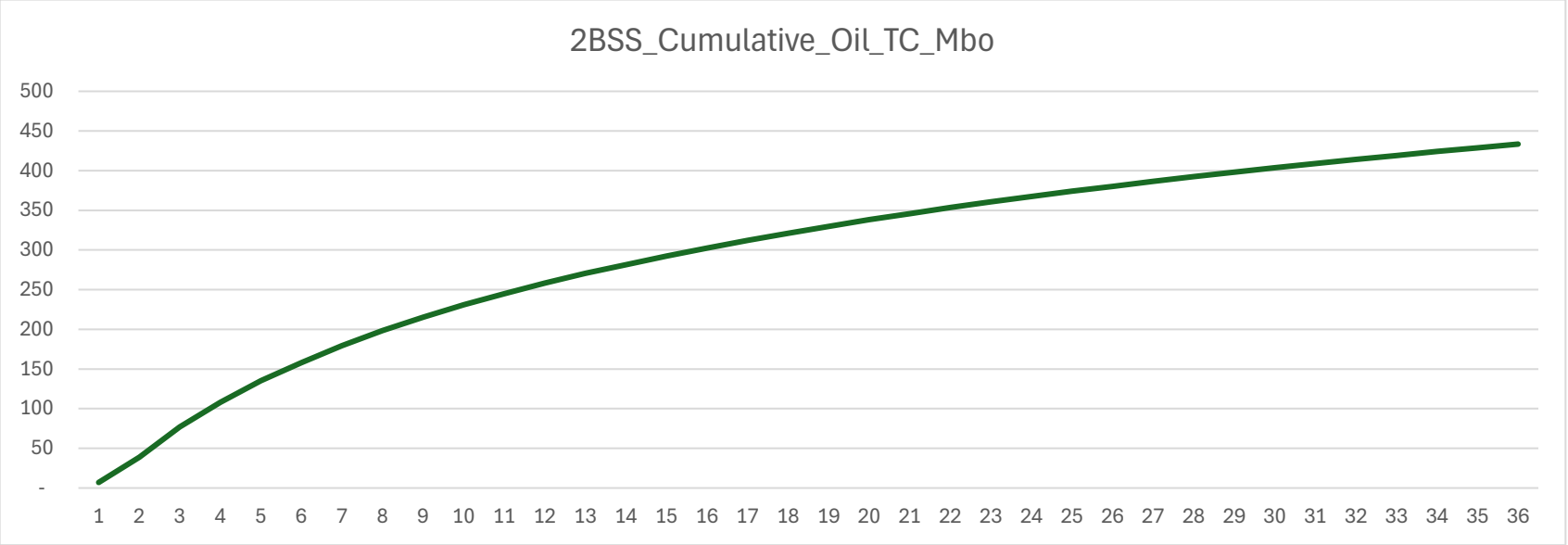
I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

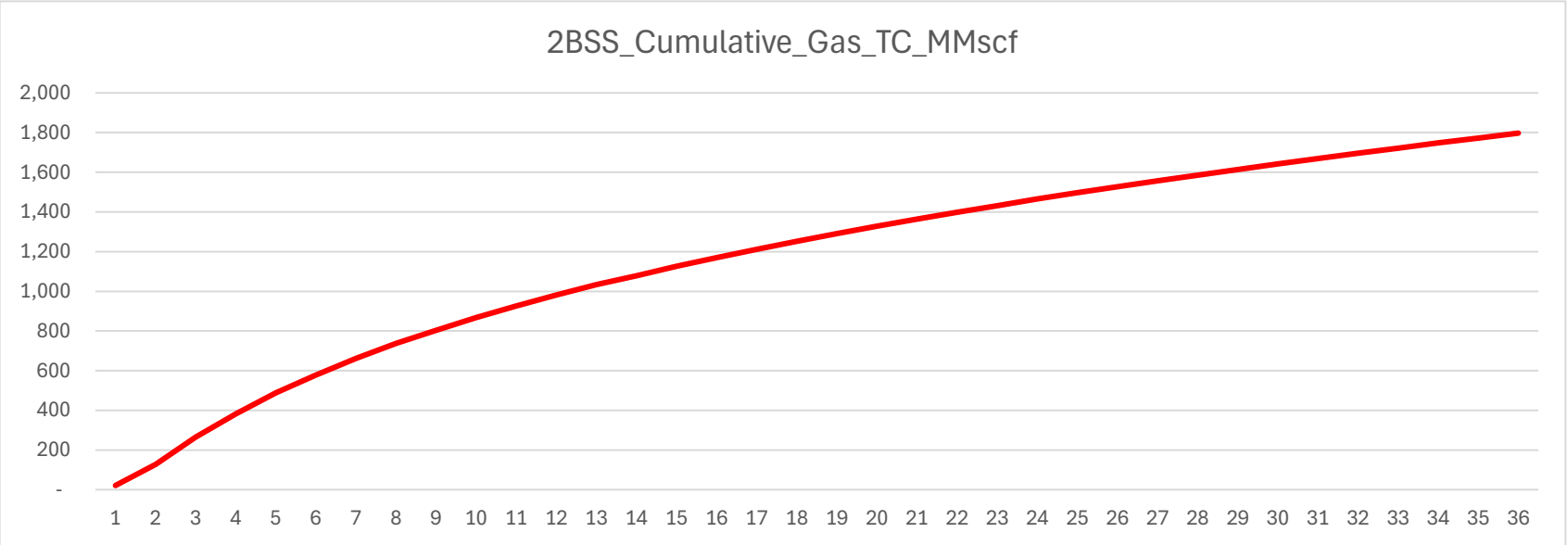
Signature:	Mayte Reyes
Printed Name:	Mayte Reyes
Title:	Sr. Regulatory Coodinator
E-mail Address:	mayte.x.reyes@conocophillips.com
Date:	5/28/2025
Phone:	575-748-6945

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

Anticipated Production Decline Curve





AFMSS
U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report
10/29/2025

APD ID: 10400105277
Submission Date: 06/04/2025
Operator Name: CONOCOPHILLIPS COMPANY
Well Name: FURY ROAD FEDERAL COM
Well Number: 504H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16660454	QUATERNARY	3260	0	0	ALLUVIUM	NONE	N
16660449	RUSTLER	3118	142	142	ANHYDRITE	USEABLE WATER	N
16660450	TOP SALT	2775	485	485	SALT	NONE	N
16660472	---	1975	1285	1285	HALITE, OTHER : 5% Clay	NONE	N
16660459	BASE OF SALT	-375	3635	3635	SALT	NONE	N
16660452	LAMAR	-543	3803	3803	LIMESTONE	NONE	N
16660453	BELL CANYON	-625	3885	3885	SANDSTONE	NONE	N
16660460	CHERRY CANYON	-1562	4822	4822	SANDSTONE	NATURAL GAS, OIL	N
16660461	BRUSHY CANYON	-2837	6097	6097	SANDSTONE	NATURAL GAS, OIL	N
16660456	BONE SPRING	-4429	7689	7689	SANDSTONE	NATURAL GAS, OIL	N
16660463	BONE SPRING 1ST	-5479	8739	8739	SANDSTONE	NATURAL GAS, OIL	N
16660464	BONE SPRING 2ND	-6210	9470	9470	SANDSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M
Rating Depth: 9725

Equipment: Annular, Blind Ram, Pipe Ram, Double Ram. The BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.
Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to choke manifold. See attached for specs and hydrostatic test chart. A variance is requested for use of a multi-bowl wellhead. A variance is requested to allow for break testing during batch drilling.

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Choke Diagram Attachment:

COP_Fury_Road_5M_Choke_20250528212739.pdf

NEW_COP_Fury_Road_5M_Choke_20250904123129.pdf

BOP Diagram Attachment:

COP_Fury_Road_5M_BOP_20250528212804.pdf

COP_Fury_Road_Flex_Hose_Variance_20250528212806.pdf

NEW_COP_Fury_Road_5M_BOP_20250904123147.pdf

NEW_COP_Fury_Road_Flex_Hose_Variance_20250904123148.pdf

Pressure Rating (PSI): 5M **Rating Depth:** 3700

Equipment: Annular, Blind Ram, Pipe Ram, Double Ram. The BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to choke manifold. See attached for specs and hydrostatic test chart. A variance is requested for use of a multi-bowl wellhead. A variance is requested to allow for break testing during batch drilling.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Choke Diagram Attachment:

COP_Fury_Road_10M_Choke_20250528212846.pdf

NEW_COP_Fury_Road_10M_Choke_20250904123209.pdf

BOP Diagram Attachment:

COP_Fury_Road_10M_BOP_20250528212909.pdf

COP_Fury_Road_Flex_Hose_Variance_20250528212911.pdf

NEW_COP_Fury_Road_10M_BOP_20250904123223.pdf

NEW_COP_Fury_Road_Flex_Hose_Variance_20250904123224.pdf

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	250	0	250	3260	3010	250	J-55	54.5	OTHER - BTC	9.88	1.74	DRY	66.72	DRY	66.72
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3725	0	3725	3585	-465	3725	OTHER - L80-IC	40	OTHER - BTC	2	1.48	DRY	6.36	DRY	6.36
3	PRODUCTION	7.875	5.5	NEW	API	N	0	23275	0	9870	3585	-6610	23275	OTHER - P110-CY	23	OTHER - TXP BTC	2.98	3.74	DRY	3.21	DRY	3.21

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COP_Fury_Road_504H_Casing_Program_20250603142922.pdf

NEW_COP_Fury_Road_504H_Casing_Program_20250904123313.pdf

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Casing Attachments

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COP_Fury_Road_504H_Casing_Program_20250603143006.pdf

NEW_COP_Fury_Road_504H_Casing_Program_20250904123324.pdf

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COP_Fury_Road_504H_Casing_Program_20250603142857.pdf

NEW_COP_Fury_Road_504H_Casing_Program_20250904123302.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	250	90	1.75	13.5	157	50	Class C	As needed
SURFACE	Tail		250	250	179	1.35	14.8	241	50	Class C	As needed
INTERMEDIATE	Lead		3700	3700	720	1.8	12.8	1296	50	Class C	As needed

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		3700	3700	351	1.34	14.8	470	50	Class C	As needed
PRODUCTION	Lead		9870	23275	690	2.98	10.2	2056	0	Tuned Light	As needed
PRODUCTION	Tail		9870	23275	1640	1.42	13.2	2328	0	Class H	As needed

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
250	3725	OTHER : Saturated Brine	9	10							Saturated Brine
3725	23275	OIL-BASED MUD	8.6	9.5							OBM
0	250	OTHER : Fresh water gel	8.6	8.8							Fresh water gel

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

None planned

List of open and cased hole logs run in the well:

CEMENT BOND LOG,COMPENSATED NEUTRON LOG,GAMMA RAY LOG,

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4880 **Anticipated Surface Pressure:** 2708

Anticipated Bottom Hole Temperature(F): 155

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

COP_Fury_Road_H2S_Plan_20250528215707.pdf
COP_Fury_Road_503H_504H_522H_523H_H2S_Schematic_20250603144222.pdf
NEW_COP_Fury_Road_503H_504H_522H_523H_H2S_Schematic_20250904123356.pdf
NEW_COP_Fury_Road_H2S_Plan_20250904123407.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

COP_Fury_Road_504H_AC_Report_20250603145946.pdf
COP_Fury_Road_504H_Directional_Plan_20250603145946.pdf
NEW_COP_Fury_Road_504H_AC_Report_20250904123544.pdf
NEW_COP_Fury_Road_504H_Directional_Plan_20250904123545.pdf

Other proposed operations facets description:

Drilling Plan attached.
GCP attached.
Cement Plan attached.

Other proposed operations facets attachment:

COP_BOP_Break_Testing_Documentation_6_07_23_20250122084643.pdf

Operator Name: CONOCOPHILLIPS COMPANY

Well Name: FURY ROAD FEDERAL COM **Well Number:** 504H

COP_Offline_Bradenhead_Intermediate_Documentation_3_11_23__Rev2_20250122084645.pdf
Fury_Road_R111Q_Clarification___3_String_20250528220231.pdf
R_111_Q___3_String___Open_20250408140441.pdf
Tenaris_Data_Sheets___3_String_Pot_Ash___BSS___State_Line___23__P110_CY_Prod_20250528220227.pdf
COP_Fury_Road_504H_GCP_20250603145851.pdf
COP_Fury_Road_504H_Casing_Program_20250603145913.pdf
COP_Fury_Road_504H_Drilling_Program_20250603145914.pdf
COP_Fury_Road_504H_Cement_Program_20250603145914.pdf
NEW_COP_BOP_Break_Testing_Documentation_6_07_23_20250904123435.pdf
NEW_Tenaris_Data_Sheets___3_String_Pot_Ash___BSS___State_Line___23__P110_CY_Prod_20250904123436.pdf
NEW_Fury_Road_R111Q_Clarification___3_String_20250904123436.pdf
NEW_R_111_Q___3_String___Open_20250904123436.pdf
NEW_COP_Offline_Bradenhead_Intermediate_Documentation_3_11_23__Rev2_20250904123437.pdf
NEW_COP_Fury_Road_504H_Casing_Program_20250904123455.pdf
NEW_COP_Fury_Road_504H_Cement_Program_20250904123456.pdf
NEW_COP_Fury_Road_504H_Drilling_Program_20250904123456.pdf
NEW_COP_Fury_Road_504H_GCP_20250904123511.pdf

Other Variance request(s)?: Y

Other Variance attachment:

COG_6.75_5M_Variance_WCP_20230621084732.pdf

DELAWARE BASIN WEST

ATLAS PROSPECT (DBW)
FURY ROAD PROJECT
FURY ROAD FED COM 504H

OWB
PWP0

Anticollision Report

29 April, 2025

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.0usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 1,000.0usft or Max. Ell. Sep. of 500.0usft	**Error Surface:**	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 **Sigma**	**Casing Method:**	Added to Error Values

Survey Tool Program **Date** 4/28/2025

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	23,275.3	PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + SAG + FDIR Corr.

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
FURY ROAD PROJECT						
FURY ROAD FED COM 502H - OWB - PWP1						Out of range
FURY ROAD FED COM 503H - OWB - PWP1	1,500.0	1,500.0	20.0	10.2	2.036	Caution - Monitor Closely, CC, ES, SF
FURY ROAD FED COM 522H - OWB - PWP1	1,500.0	1,500.0	40.0	30.2	4.072	CC, ES
FURY ROAD FED COM 522H - OWB - PWP1	1,600.0	1,600.0	41.5	31.2	4.053	SF
FURY ROAD FED COM 523H - OWB - PWP1	1,500.0	1,500.0	20.0	10.2	2.036	Caution - Monitor Closely, CC
FURY ROAD FED COM 523H - OWB - PWP1	1,600.0	1,599.3	20.2	9.9	1.962	Caution - Monitor Closely, ES
FURY ROAD FED COM 523H - OWB - PWP1	1,700.0	1,698.7	20.9	10.2	1.948	Caution - Monitor Closely, SF
IRON THRONE PROJECT						
FORTY NINER RIDGE 26 FEDERAL_2H - OWB - AWP						Out of range
FORTY NINER RIDGE 26 FEDERAL_4H - OWB - AWP						Out of range
FORTY NINER RIDGE UNIT 22 23 III FEDERAL COM 1						Out of range
OHANA PROJECT						
SANDY FEDERAL 1 - OWB - AWP						Out of range
SANDY FEDERAL 1 - ST01 - PLAN						Out of range
SANDY FEDERAL 20H - OWB - AWP						Out of range
SANDY FEDERAL 21H - OWB - AWP						Out of range
SANDY FEDERAL 22H - OWB - AWP	12,594.6	9,917.7	823.5	783.8	20.761	CC
SANDY FEDERAL 22H - OWB - AWP	12,600.0	9,917.6	823.5	783.7	20.714	ES
SANDY FEDERAL 22H - OWB - AWP	12,800.0	9,916.5	848.7	806.1	19.899	SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
THUNDERDOME PROJECT						
_THUNDERDOME FED COM 503H - OWB - PWP0	2,337.9	2,245.2	412.9	400.4	32.984	CC
_THUNDERDOME FED COM 503H - OWB - PWP0	2,341.2	2,248.2	412.9	400.4	32.960	ES
_THUNDERDOME FED COM 503H - OWB - PWP0	2,800.0	2,670.7	450.4	436.0	31.339	SF
_THUNDERDOME FED COM 504H - OWB - PWP0	6,142.5	6,048.5	106.8	71.0	2.980	Normal Operations, CC
_THUNDERDOME FED COM 504H - OWB - PWP0	6,300.0	6,205.2	108.0	69.9	2.838	Normal Operations, ES
_THUNDERDOME FED COM 504H - OWB - PWP0	6,400.0	6,303.9	110.0	70.7	2.802	Normal Operations, SF
_THUNDERDOME FED COM 522H - OWB - PWP0	1,010.0	961.0	449.8	441.8	56.192	CC
_THUNDERDOME FED COM 522H - OWB - PWP0	1,100.0	1,044.6	450.2	441.8	53.602	ES
_THUNDERDOME FED COM 522H - OWB - PWP0	3,200.0	3,010.4	699.9	680.8	36.660	SF
_THUNDERDOME FED COM 523H - OWB - PWP0	5,435.2	5,313.5	241.1	203.8	6.452	CC
_THUNDERDOME FED COM 523H - OWB - PWP0	5,500.0	5,377.8	241.3	203.4	6.377	ES
_THUNDERDOME FED COM 523H - OWB - PWP0	5,900.0	5,774.8	247.9	207.7	6.165	SF
FNR 35 FEDERAL 11H - OWB - AWP						Out of range
FNR 35 FEDERAL 3H - OWB - AWP						Out of range
FORTY NINER RIDGE 23 FEDERAL 002H - OWB - AW	9,925.0	11,974.2	959.0	896.0	15.212	SF
FORTY NINER RIDGE 23 FEDERAL 002H - OWB - AW	12,044.0	9,921.9	885.6	848.8	24.072	CC, ES
FORTY NINER RIDGE 23 FEDERAL 1H - OWB - AWP	10,025.0	12,123.9	587.2	524.9	9.435	SF
FORTY NINER RIDGE 23 FEDERAL 1H - OWB - AWP	10,063.4	12,099.2	586.3	524.3	9.454	ES
FORTY NINER RIDGE 23 FEDERAL 1H - OWB - AWP	11,721.1	10,418.0	575.8	538.9	15.582	CC
FORTY NINER RIDGE 25 FEDERAL 1H - OWB - AWP						Out of range
POKER LAKE 23 DTD FEDERAL COM 105H - OWB - A						Out of range
POKER LAKE 23 DTD FEDERAL COM 125H - OWB - A						Out of range
POKER LAKE 23 DTD FEDERAL COM 128H - OWB - A						Out of range
POKER LAKE 23 DTD FEDERAL COM 175H - OWB - A						Out of range
POKER LAKE 23 DTD FEDERAL COM 176H - OWB - A						Out of range
ROADRUNNER 23 11 GBI FED CO 014H - OWB - AWP	5,749.3	5,604.0	494.2	462.3	15.507	CC
ROADRUNNER 23 11 GBI FED CO 014H - OWB - AWP	5,800.0	5,653.1	494.3	462.1	15.343	ES
ROADRUNNER 23 11 GBI FED CO 014H - OWB - AWP	7,100.0	6,915.4	571.6	529.7	13.642	SF
ROADRUNNER 23-11 HAI FED COM 013H - OWB - AW	7,341.2	7,026.3	770.6	733.7	20.892	CC, ES
ROADRUNNER 23-11 HAI FED COM 013H - OWB - AW	7,400.0	7,062.3	771.8	734.8	20.853	SF
ROADRUNNER FEDERAL 23 11 HAL 003H - OWB - AW	7,320.3	7,062.0	586.6	556.0	19.176	CC, ES
ROADRUNNER FEDERAL 23 11 HAL 003H - OWB - AW	7,400.0	7,109.0	590.4	559.4	19.068	SF
ROADRUNNER FEDERAL COM 23 11 GBL 004H - OWB	4,122.9	4,003.8	725.3	700.8	29.642	CC, ES
ROADRUNNER FEDERAL COM 23 11 GBL 004H - OWB	5,500.0	5,308.0	850.3	817.0	25.598	SF
ROADRUNNER FEDERAL COM 23 ILL 005H - OWB - A						Out of range
ROADRUNNER FEDERAL COM 23 ILL 005H - ST01 - A	7,828.0	8,122.8	620.5	576.5	14.102	CC, ES, SF
SANDY FEDERAL 23H - OWB - AWP						Out of range
THUNDERDOME FED COM 705H - OWB - AWP						Out of range
THUNDERDOME FED COM 706H - PILOT HOLE - AWP	2,146.7	2,132.3	290.8	280.5	28.333	CC, ES
THUNDERDOME FED COM 706H - PILOT HOLE - AWP	2,600.0	2,576.5	305.7	294.5	27.174	SF
THUNDERDOME FED COM 706H - ST01 - AWP	2,146.7	2,132.3	290.8	280.5	28.333	CC, ES
THUNDERDOME FED COM 706H - ST01 - AWP	2,600.0	2,576.5	305.7	294.5	27.174	SF
THUNDERDOME FED COM 708H - OWB - AWP	2,407.4	2,390.4	270.1	259.3	25.095	CC, ES
THUNDERDOME FED COM 708H - OWB - AWP	10,400.0	9,938.7	535.7	506.7	18.515	SF
THUNDERDOME FED COM 709H - OWB - AWP	10,441.4	10,028.4	70.1	36.6	2.094	Caution - Monitor Closely, CC, ES, SF
THUNDERDOME FED COM 710H - OWB - AWP	3,381.5	3,371.1	13.4	-0.9	0.935	STOP Drilling, CC, ES, SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: FURY ROAD PROJECT - FURY ROAD FED COM 503H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1 — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.23	-0.1	-20.0	20.0				
100.0	100.0	100.0	100.0	0.8	0.8	-90.23	-0.1	-20.0	20.0	18.0	1.99	10.044	
200.0	200.0	200.0	200.0	1.4	1.4	-90.23	-0.1	-20.0	20.0	16.7	3.31	6.040	
300.0	300.0	300.0	300.0	1.9	1.9	-90.23	-0.1	-20.0	20.0	15.8	4.20	4.767	
400.0	400.0	400.0	400.0	2.2	2.2	-90.23	-0.1	-20.0	20.0	15.1	4.91	4.072	
500.0	500.0	500.0	500.0	2.6	2.6	-90.23	-0.1	-20.0	20.0	14.5	5.53	3.615	
600.0	600.0	600.0	600.0	2.8	2.8	-90.23	-0.1	-20.0	20.0	13.9	6.09	3.284	
700.0	700.0	700.0	700.0	3.1	3.1	-90.23	-0.1	-20.0	20.0	13.4	6.60	3.030	
800.0	800.0	800.0	800.0	3.3	3.3	-90.23	-0.1	-20.0	20.0	12.9	7.08	2.826	Normal Operations
900.0	900.0	900.0	900.0	3.6	3.6	-90.23	-0.1	-20.0	20.0	12.5	7.52	2.658	Normal Operations
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.23	-0.1	-20.0	20.0	12.1	7.95	2.517	Normal Operations
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.23	-0.1	-20.0	20.0	11.6	8.35	2.395	Caution - Monitor Closely
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.23	-0.1	-20.0	20.0	11.3	8.74	2.289	Caution - Monitor Closely
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.23	-0.1	-20.0	20.0	10.9	9.11	2.195	Caution - Monitor Closely
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.23	-0.1	-20.0	20.0	10.5	9.47	2.111	Caution - Monitor Closely
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.23	-0.1	-20.0	20.0	10.2	9.82	2.036	Caution - Monitor Closely, CC, ES, SF
1,600.0	1,600.0	1,600.0	1,600.0	5.0	4.9	-148.16	-0.1	-20.0	21.5	11.2	10.23	2.098	Caution - Monitor Closely
1,700.0	1,699.8	1,699.8	1,699.8	5.3	5.1	-154.20	-0.1	-20.0	26.1	15.4	10.64	2.449	Caution - Monitor Closely
1,800.0	1,799.5	1,799.5	1,799.5	5.5	5.2	-160.53	-0.1	-20.0	34.1	23.1	11.05	3.087	
1,900.0	1,898.7	1,899.2	1,899.2	5.8	5.5	-163.52	1.6	-20.0	45.2	33.8	11.46	3.946	
2,000.0	1,997.5	1,998.9	1,998.7	6.0	5.8	-162.96	6.8	-20.0	58.6	46.8	11.85	4.947	
2,100.0	2,095.6	2,098.3	2,097.7	6.2	6.0	-160.81	15.4	-20.0	74.3	62.1	12.22	6.083	
2,200.0	2,193.1	2,197.3	2,196.0	6.5	6.3	-158.03	27.4	-20.0	92.4	79.9	12.56	7.357	
2,300.0	2,289.6	2,295.7	2,293.2	6.7	6.6	-155.09	42.7	-20.0	113.2	100.3	12.90	8.774	
2,341.2	2,329.2	2,336.1	2,332.9	6.7	6.7	-153.89	49.9	-20.0	122.5	109.5	12.98	9.435	
2,400.0	2,385.4	2,393.5	2,389.3	6.8	6.9	-152.23	61.2	-20.0	136.1	123.0	13.11	10.383	
2,500.0	2,481.2	2,490.8	2,484.1	7.0	7.2	-149.12	82.8	-20.0	159.2	145.8	13.34	11.934	
2,600.0	2,576.9	2,585.1	2,576.2	7.1	7.5	-146.97	103.4	-20.7	183.3	169.7	13.62	13.457	
2,700.0	2,672.6	2,679.1	2,668.4	7.3	7.9	-146.12	121.1	-22.6	209.0	195.1	13.92	15.017	
2,800.0	2,768.3	2,772.4	2,760.5	7.5	8.2	-146.15	135.9	-25.6	236.0	221.8	14.21	16.610	
2,900.0	2,864.0	2,867.8	2,854.9	7.6	8.5	-146.60	149.2	-29.5	263.8	249.2	14.54	18.139	
3,000.0	2,959.8	2,963.9	2,950.0	7.8	8.8	-146.98	162.5	-33.5	291.6	276.8	14.88	19.603	
3,100.0	3,055.5	3,059.9	3,045.0	8.0	9.1	-147.29	175.8	-37.4	319.5	304.3	15.20	21.022	
3,200.0	3,151.2	3,155.9	3,140.0	8.2	9.4	-147.55	189.1	-41.3	347.4	331.9	15.52	22.379	
3,300.0	3,246.9	3,251.9	3,235.0	8.4	9.8	-147.77	202.4	-45.2	375.3	359.4	15.85	23.676	
3,400.0	3,342.6	3,348.0	3,330.0	8.6	10.1	-147.96	215.8	-49.2	403.2	387.0	16.18	24.918	
3,500.0	3,438.4	3,444.0	3,425.0	8.8	10.5	-148.13	229.1	-53.1	431.0	414.5	16.51	26.106	
3,600.0	3,534.1	3,540.0	3,520.0	9.0	10.8	-148.27	242.4	-57.0	458.9	442.1	16.85	27.243	
3,700.0	3,629.8	3,636.0	3,615.1	9.2	11.2	-148.40	255.7	-61.0	486.8	469.7	17.18	28.333	
3,800.0	3,725.5	3,732.1	3,710.1	9.4	11.5	-148.52	269.0	-64.9	514.7	497.2	17.52	29.377	
3,900.0	3,821.2	3,828.1	3,805.1	9.6	11.9	-148.62	282.4	-68.8	542.6	524.8	17.86	30.379	
4,000.0	3,917.0	3,924.1	3,900.1	9.8	12.2	-148.71	295.7	-72.8	570.5	552.3	18.21	31.339	
4,100.0	4,012.7	4,020.1	3,995.1	10.0	12.6	-148.80	309.0	-76.7	598.4	579.9	18.55	32.261	
4,200.0	4,108.4	4,116.2	4,090.1	10.2	13.0	-148.87	322.3	-80.6	626.3	607.4	18.90	33.146	
4,300.0	4,204.1	4,212.2	4,185.2	10.4	13.4	-148.95	335.7	-84.5	654.2	635.0	19.24	33.996	
4,400.0	4,299.8	4,308.2	4,280.2	10.6	13.7	-149.01	349.0	-88.5	682.1	662.6	19.59	34.813	
4,500.0	4,395.6	4,404.2	4,375.2	10.8	14.1	-149.07	362.3	-92.4	710.1	690.1	19.95	35.598	
4,600.0	4,491.3	4,500.3	4,470.2	11.0	14.5	-149.12	375.6	-96.3	738.0	717.7	20.30	36.354	
4,700.0	4,587.0	4,596.3	4,565.2	11.3	14.9	-149.18	388.9	-100.3	765.9	745.2	20.65	37.081	
4,800.0	4,682.7	4,692.3	4,660.2	11.5	15.3	-149.22	402.3	-104.2	793.8	772.8	21.01	37.781	
4,900.0	4,778.4	4,788.3	4,755.2	11.7	15.7	-149.27	415.6	-108.1	821.7	800.3	21.37	38.456	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: FURY ROAD PROJECT - FURY ROAD FED COM 503H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
5,000.0	4,874.2	4,884.4	4,850.3	11.9	16.0	-149.31	428.9	-112.0	849.6	827.9	21.73	39.106	
5,100.0	4,969.9	4,980.4	4,945.3	12.1	16.4	-149.35	442.2	-116.0	877.5	855.4	22.08	39.733	
5,200.0	5,065.6	5,076.4	5,040.3	12.4	16.8	-149.38	455.5	-119.9	905.4	883.0	22.45	40.338	
5,300.0	5,161.3	5,172.4	5,135.3	12.6	17.2	-149.42	468.9	-123.8	933.3	910.5	22.81	40.922	
5,400.0	5,257.0	5,268.5	5,230.3	12.8	17.6	-149.45	482.2	-127.8	961.2	938.1	23.17	41.485	
5,500.0	5,352.8	5,364.5	5,325.3	13.0	18.0	-149.48	495.5	-131.7	989.1	965.6	23.53	42.030	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: FURY ROAD PROJECT - FURY ROAD FED COM 522H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1 — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.24	-0.2	-40.0	40.0				
100.0	100.0	100.0	100.0	0.8	0.8	-90.24	-0.2	-40.0	40.0	38.0	1.99	20.088	
200.0	200.0	200.0	200.0	1.4	1.4	-90.24	-0.2	-40.0	40.0	36.7	3.31	12.079	
300.0	300.0	300.0	300.0	1.9	1.9	-90.24	-0.2	-40.0	40.0	35.8	4.20	9.534	
400.0	400.0	400.0	400.0	2.2	2.2	-90.24	-0.2	-40.0	40.0	35.1	4.91	8.143	
500.0	500.0	500.0	500.0	2.6	2.6	-90.24	-0.2	-40.0	40.0	34.5	5.53	7.229	
600.0	600.0	600.0	600.0	2.8	2.8	-90.24	-0.2	-40.0	40.0	33.9	6.09	6.568	
700.0	700.0	700.0	700.0	3.1	3.1	-90.24	-0.2	-40.0	40.0	33.4	6.60	6.060	
800.0	800.0	800.0	800.0	3.3	3.3	-90.24	-0.2	-40.0	40.0	32.9	7.08	5.652	
900.0	900.0	900.0	900.0	3.6	3.6	-90.24	-0.2	-40.0	40.0	32.5	7.52	5.317	
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.24	-0.2	-40.0	40.0	32.1	7.95	5.033	
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.24	-0.2	-40.0	40.0	31.6	8.35	4.789	
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.24	-0.2	-40.0	40.0	31.3	8.74	4.577	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.24	-0.2	-40.0	40.0	30.9	9.11	4.390	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.24	-0.2	-40.0	40.0	30.5	9.47	4.222	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.24	-0.2	-40.0	40.0	30.2	9.82	4.072 CC, ES	
1,600.0	1,600.0	1,600.0	1,600.0	5.0	4.9	-146.90	-0.2	-40.0	41.5	31.2	10.23	4.053 SF	
1,700.0	1,699.8	1,699.8	1,699.8	5.3	5.1	-150.42	-0.2	-40.0	45.9	35.3	10.63	4.321	
1,800.0	1,799.5	1,799.5	1,799.5	5.5	5.2	-154.95	-0.2	-40.0	53.7	42.6	11.03	4.866	
1,900.0	1,898.7	1,898.7	1,898.7	5.8	5.4	-159.42	-0.2	-40.0	64.9	53.5	11.43	5.679	
2,000.0	1,997.5	1,997.5	1,997.5	6.0	5.6	-163.28	-0.2	-40.0	79.8	68.0	11.83	6.742	
2,100.0	2,095.6	2,093.2	2,093.2	6.2	5.8	-165.73	0.3	-41.4	99.4	87.1	12.25	8.113	
2,200.0	2,193.1	2,187.1	2,187.0	6.5	6.0	-166.67	1.9	-45.7	124.9	112.2	12.64	9.874	
2,300.0	2,289.6	2,280.0	2,279.6	6.7	6.1	-166.77	4.5	-52.7	155.8	142.8	12.95	12.032	
2,341.2	2,329.2	2,318.8	2,318.2	6.7	6.2	-166.79	5.6	-55.9	169.7	156.6	13.04	13.014	
2,400.0	2,385.4	2,374.0	2,373.2	6.8	6.3	-166.92	7.3	-60.4	189.9	176.7	13.19	14.397	
2,500.0	2,481.2	2,467.9	2,466.7	7.0	6.5	-167.10	10.1	-68.1	224.3	210.8	13.50	16.613	
2,600.0	2,576.9	2,561.8	2,560.3	7.1	6.7	-167.23	12.9	-75.8	258.7	244.9	13.83	18.711	
2,700.0	2,672.6	2,655.9	2,654.0	7.3	6.8	-167.33	15.7	-83.5	293.1	279.0	14.13	20.749	
2,800.0	2,768.3	2,753.0	2,750.7	7.5	7.1	-167.08	20.4	-91.6	327.0	312.5	14.47	22.593	
2,900.0	2,864.0	2,850.7	2,847.6	7.6	7.4	-166.34	28.4	-100.1	359.9	345.1	14.85	24.243	
3,000.0	2,959.8	2,948.6	2,944.5	7.8	7.7	-165.24	39.8	-108.9	392.1	376.9	15.20	25.791	
3,100.0	3,055.5	3,046.6	3,040.9	8.0	8.0	-163.84	54.5	-118.0	423.6	408.0	15.55	27.240	
3,200.0	3,151.2	3,143.8	3,136.1	8.2	8.3	-162.23	72.3	-127.3	454.5	438.6	15.87	28.638	
3,300.0	3,246.9	3,238.1	3,228.2	8.4	8.5	-160.74	90.6	-136.4	485.5	469.3	16.20	29.975	
3,400.0	3,342.6	3,332.5	3,320.2	8.6	8.9	-159.43	109.0	-145.5	516.8	500.3	16.55	31.228	
3,500.0	3,438.4	3,426.8	3,412.3	8.8	9.2	-158.26	127.3	-154.6	548.3	531.4	16.91	32.425	
3,600.0	3,534.1	3,521.2	3,504.4	9.0	9.5	-157.22	145.6	-163.8	580.0	562.8	17.28	33.567	
3,700.0	3,629.8	3,615.5	3,596.5	9.2	9.9	-156.29	164.0	-172.9	611.9	594.2	17.66	34.655	
3,800.0	3,725.5	3,709.8	3,688.6	9.4	10.2	-155.44	182.3	-182.0	643.9	625.8	18.04	35.692	
3,900.0	3,821.2	3,804.2	3,780.7	9.6	10.6	-154.68	200.6	-191.1	676.0	657.5	18.43	36.679	
4,000.0	3,917.0	3,898.5	3,872.8	9.8	10.9	-153.99	218.9	-200.2	708.2	689.3	18.83	37.617	
4,100.0	4,012.7	3,992.9	3,964.9	10.0	11.3	-153.35	237.3	-209.3	740.4	721.2	19.23	38.510	
4,200.0	4,108.4	4,087.2	4,057.0	10.2	11.7	-152.77	255.6	-218.5	772.8	753.2	19.63	39.359	
4,300.0	4,204.1	4,181.5	4,149.1	10.4	12.1	-152.24	273.9	-227.6	805.2	785.2	20.05	40.167	
4,400.0	4,299.8	4,275.9	4,241.2	10.6	12.4	-151.74	292.3	-236.7	837.7	817.2	20.46	40.935	
4,500.0	4,395.6	4,370.2	4,333.3	10.8	12.8	-151.29	310.6	-245.8	870.2	849.3	20.89	41.666	
4,600.0	4,491.3	4,464.6	4,425.4	11.0	13.2	-150.86	328.9	-254.9	902.8	881.5	21.31	42.363	
4,700.0	4,587.0	4,558.9	4,517.5	11.3	13.6	-150.47	347.3	-264.0	935.4	913.7	21.74	43.025	
4,800.0	4,682.7	4,653.2	4,609.5	11.5	14.0	-150.10	365.6	-273.2	968.1	945.9	22.17	43.657	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: FURY ROAD PROJECT - FURY ROAD FED COM 523H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1 — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	89.77	0.1	20.0	20.0				
100.0	100.0	100.0	100.0	0.8	0.8	89.77	0.1	20.0	20.0	18.0	1.99	10.044	
200.0	200.0	200.0	200.0	1.4	1.4	89.77	0.1	20.0	20.0	16.7	3.31	6.040	
300.0	300.0	300.0	300.0	1.9	1.9	89.77	0.1	20.0	20.0	15.8	4.20	4.767	
400.0	400.0	400.0	400.0	2.2	2.2	89.77	0.1	20.0	20.0	15.1	4.91	4.072	
500.0	500.0	500.0	500.0	2.6	2.6	89.77	0.1	20.0	20.0	14.5	5.53	3.615	
600.0	600.0	600.0	600.0	2.8	2.8	89.77	0.1	20.0	20.0	13.9	6.09	3.284	
700.0	700.0	700.0	700.0	3.1	3.1	89.77	0.1	20.0	20.0	13.4	6.60	3.030	
800.0	800.0	800.0	800.0	3.3	3.3	89.77	0.1	20.0	20.0	12.9	7.08	2.826	Normal Operations
900.0	900.0	900.0	900.0	3.6	3.6	89.77	0.1	20.0	20.0	12.5	7.52	2.658	Normal Operations
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	89.77	0.1	20.0	20.0	12.1	7.95	2.517	Normal Operations
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	89.77	0.1	20.0	20.0	11.6	8.35	2.395	Caution - Monitor Closely
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	89.77	0.1	20.0	20.0	11.3	8.74	2.289	Caution - Monitor Closely
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.77	0.1	20.0	20.0	10.9	9.11	2.195	Caution - Monitor Closely
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	89.77	0.1	20.0	20.0	10.5	9.47	2.111	Caution - Monitor Closely
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	89.77	0.1	20.0	20.0	10.2	9.82	2.036	Caution - Monitor Closely, CC
1,600.0	1,600.0	1,599.3	1,599.3	5.0	5.0	35.74	0.6	21.6	20.2	9.9	10.30	1.962	Caution - Monitor Closely, ES
1,700.0	1,699.8	1,698.7	1,698.5	5.3	5.3	39.38	2.2	26.5	20.9	10.2	10.74	1.948	Caution - Monitor Closely, SF
1,800.0	1,799.5	1,798.0	1,797.4	5.5	5.5	44.88	4.9	34.7	22.3	11.1	11.14	1.999	Caution - Monitor Closely
1,900.0	1,898.7	1,897.2	1,895.9	5.8	5.8	51.47	8.7	46.1	24.4	13.0	11.48	2.128	Caution - Monitor Closely
2,000.0	1,997.5	1,996.4	1,993.9	6.0	6.2	58.28	13.5	60.7	27.6	15.8	11.79	2.343	Caution - Monitor Closely
2,100.0	2,095.6	2,095.5	2,091.3	6.2	6.5	64.62	19.4	78.6	31.9	19.8	12.06	2.645	Normal Operations
2,200.0	2,193.1	2,194.6	2,187.8	6.5	6.8	70.13	26.3	99.6	37.3	25.0	12.33	3.028	
2,300.0	2,289.6	2,293.6	2,283.4	6.7	7.2	74.71	34.3	123.7	43.9	31.3	12.62	3.482	
2,341.2	2,329.2	2,334.3	2,322.6	6.7	7.4	76.34	37.8	134.6	47.0	34.3	12.71	3.695	
2,400.0	2,385.4	2,392.4	2,378.0	6.8	7.6	77.87	43.2	151.0	51.7	38.9	12.87	4.020	
2,500.0	2,481.2	2,491.7	2,472.3	7.0	7.9	78.29	53.0	180.7	60.8	47.5	13.22	4.595	
2,600.0	2,576.9	2,591.3	2,566.8	7.1	8.3	78.49	62.9	210.6	69.9	56.2	13.64	5.122	
2,700.0	2,672.6	2,690.9	2,661.2	7.3	8.7	78.64	72.8	240.6	79.0	64.9	14.08	5.609	
2,800.0	2,768.3	2,790.5	2,755.7	7.5	9.0	78.76	82.6	270.5	88.1	73.6	14.54	6.062	
2,900.0	2,864.0	2,890.1	2,850.1	7.6	9.4	78.86	92.5	300.5	97.2	82.2	15.00	6.481	
3,000.0	2,959.8	2,989.7	2,944.6	7.8	9.9	78.94	102.4	330.4	106.3	90.9	15.48	6.870	
3,100.0	3,055.5	3,089.2	3,039.1	8.0	10.3	79.00	112.2	360.4	115.5	99.5	15.97	7.230	
3,200.0	3,151.2	3,188.8	3,133.5	8.2	10.7	79.06	122.1	390.3	124.6	108.1	16.47	7.565	
3,300.0	3,246.9	3,288.4	3,228.0	8.4	11.1	79.11	132.0	420.3	133.7	116.7	16.98	7.876	
3,400.0	3,342.6	3,388.0	3,322.4	8.6	11.6	79.15	141.8	450.2	142.8	125.3	17.49	8.164	
3,500.0	3,438.4	3,487.6	3,416.9	8.8	12.0	79.19	151.7	480.2	151.9	133.9	18.01	8.433	
3,600.0	3,534.1	3,587.2	3,511.4	9.0	12.5	79.23	161.6	510.1	161.0	142.5	18.54	8.684	
3,700.0	3,629.8	3,686.7	3,605.8	9.2	12.9	79.26	171.4	540.1	170.2	151.1	19.08	8.918	
3,800.0	3,725.5	3,786.3	3,700.3	9.4	13.4	79.28	181.3	570.0	179.3	159.6	19.62	9.136	
3,900.0	3,821.2	3,885.9	3,794.7	9.6	13.9	79.31	191.2	600.0	188.4	168.2	20.17	9.340	
4,000.0	3,917.0	3,985.5	3,889.2	9.8	14.3	79.33	201.0	629.9	197.5	176.8	20.72	9.531	
4,100.0	4,012.7	4,085.1	3,983.6	10.0	14.8	79.35	210.9	659.9	206.6	185.3	21.28	9.711	
4,200.0	4,108.4	4,184.7	4,078.1	10.2	15.3	79.37	220.8	689.9	215.7	193.9	21.84	9.879	
4,300.0	4,204.1	4,284.2	4,172.6	10.4	15.8	79.39	230.6	719.8	224.9	202.5	22.40	10.037	
4,400.0	4,299.8	4,383.8	4,267.0	10.6	16.2	79.40	240.5	749.8	234.0	211.0	22.97	10.186	
4,500.0	4,395.6	4,483.4	4,361.5	10.8	16.7	79.42	250.4	779.7	243.1	219.5	23.54	10.327	
4,600.0	4,491.3	4,583.0	4,455.9	11.0	17.2	79.43	260.2	809.7	252.2	228.1	24.11	10.459	
4,700.0	4,587.0	4,682.6	4,550.4	11.3	17.7	79.44	270.1	839.6	261.3	236.6	24.69	10.584	
4,800.0	4,682.7	4,782.2	4,644.9	11.5	18.2	79.46	280.0	869.6	270.4	245.2	25.27	10.703	
4,900.0	4,778.4	4,881.7	4,739.3	11.7	18.7	79.47	289.8	899.5	279.6	253.7	25.85	10.815	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: FURY ROAD PROJECT - FURY ROAD FED COM 523H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
5,000.0	4,874.2	4,981.3	4,833.8	11.9	19.2	79.48	299.7	929.5	288.7	262.2	26.43	10.921	
5,100.0	4,969.9	5,080.9	4,928.2	12.1	19.7	79.49	309.6	959.4	297.8	270.8	27.02	11.022	
5,200.0	5,065.6	5,180.5	5,022.7	12.4	20.1	79.50	319.5	989.4	306.9	279.3	27.61	11.118	
5,300.0	5,161.3	5,280.1	5,117.2	12.6	20.6	79.50	329.3	1,019.3	316.0	287.8	28.19	11.209	
5,400.0	5,257.0	5,379.7	5,211.6	12.8	21.1	79.51	339.2	1,049.3	325.1	296.4	28.79	11.295	
5,500.0	5,352.8	5,479.2	5,306.1	13.0	21.6	79.52	349.1	1,079.2	334.3	304.9	29.38	11.378	
5,600.0	5,448.5	5,578.8	5,400.5	13.3	22.1	79.53	358.9	1,109.2	343.4	313.4	29.97	11.456	
5,700.0	5,544.2	5,678.4	5,495.0	13.5	22.6	79.53	368.8	1,139.1	352.5	321.9	30.57	11.531	
5,800.0	5,639.9	5,778.0	5,589.4	13.7	23.1	79.54	378.7	1,169.1	361.6	330.4	31.16	11.603	
5,900.0	5,735.6	5,877.6	5,683.9	13.9	23.6	79.55	388.5	1,199.0	370.7	339.0	31.76	11.672	
6,000.0	5,831.4	5,977.2	5,778.4	14.2	24.1	79.55	398.4	1,229.0	379.8	347.5	32.36	11.737	
6,100.0	5,927.1	6,076.7	5,872.8	14.4	24.6	79.56	408.3	1,258.9	389.0	356.0	32.96	11.800	
6,200.0	6,022.8	6,176.3	5,967.3	14.6	25.1	79.56	418.1	1,288.9	398.1	364.5	33.56	11.860	
6,300.0	6,118.5	6,275.9	6,061.7	14.9	25.6	79.57	428.0	1,318.8	407.2	373.0	34.17	11.918	
6,400.0	6,214.2	6,375.5	6,156.2	15.1	26.1	79.57	437.9	1,348.8	416.3	381.5	34.77	11.973	
6,500.0	6,310.0	6,475.1	6,250.7	15.3	26.6	79.58	447.7	1,378.7	425.4	390.0	35.37	12.026	
6,533.1	6,341.7	6,508.1	6,281.9	15.4	26.8	79.58	451.0	1,388.7	428.4	392.9	35.56	12.047	
6,600.0	6,405.8	6,574.7	6,345.1	15.5	27.2	79.59	457.6	1,408.7	434.6	398.6	35.97	12.084	
6,700.0	6,502.1	6,674.2	6,439.5	15.8	27.7	79.43	467.5	1,438.6	444.1	407.5	36.60	12.132	
6,800.0	6,598.8	6,773.6	6,533.8	16.0	28.2	79.07	477.3	1,468.5	453.9	416.6	37.27	12.178	
6,900.0	6,696.0	6,874.7	6,629.8	16.2	28.7	78.52	487.3	1,498.8	464.0	426.1	37.96	12.224	
7,000.0	6,793.6	6,978.0	6,728.3	16.4	29.2	77.95	497.0	1,528.2	473.9	435.2	38.66	12.256	
7,100.0	6,891.5	7,081.6	6,827.6	16.6	29.7	77.37	506.2	1,556.1	483.2	443.9	39.35	12.281	
7,200.0	6,989.8	7,185.3	6,927.7	16.8	30.2	76.81	514.8	1,582.3	492.2	452.2	40.01	12.302	
7,300.0	7,088.4	7,289.3	7,028.4	17.0	30.7	76.24	522.9	1,606.8	500.7	460.1	40.65	12.319	
7,400.0	7,187.2	7,393.4	7,129.7	17.2	31.2	75.68	530.4	1,629.6	508.8	467.6	41.27	12.330	
7,500.0	7,286.3	7,497.8	7,231.7	17.4	31.7	75.11	537.3	1,650.7	516.5	474.6	41.86	12.338	
7,600.0	7,385.7	7,602.4	7,334.2	17.6	32.2	74.55	543.7	1,670.0	523.7	481.3	42.44	12.341	
7,700.0	7,485.2	7,707.1	7,437.3	17.8	32.7	73.98	549.5	1,687.6	530.5	487.5	42.99	12.340	
7,800.0	7,584.8	7,812.0	7,540.9	18.0	33.1	73.40	554.7	1,703.5	536.9	493.4	43.52	12.335	
7,900.0	7,684.6	7,917.1	7,645.0	18.1	33.6	72.82	559.4	1,717.5	542.8	498.8	44.03	12.327	
8,000.0	7,784.5	8,022.4	7,749.5	18.3	34.0	72.24	563.4	1,729.8	548.3	503.7	44.52	12.315	
8,100.0	7,884.5	8,127.9	7,854.3	18.4	34.5	71.64	566.8	1,740.3	553.3	508.3	44.98	12.300	
8,200.0	7,984.5	8,233.5	7,959.6	18.5	34.9	71.03	569.7	1,748.9	557.9	512.5	45.42	12.282	
8,215.5	8,000.0	8,249.9	7,975.9	18.5	34.9	126.24	570.1	1,750.1	558.6	513.1	45.48	12.281	
8,300.0	8,084.5	8,339.3	8,065.1	18.6	35.3	125.75	571.9	1,755.7	561.8	516.0	45.81	12.264	
8,400.0	8,184.5	8,445.4	8,171.1	18.7	35.6	125.32	573.6	1,760.7	564.7	518.6	46.14	12.240	
8,500.0	8,284.5	8,551.6	8,277.2	18.7	35.9	125.06	574.6	1,763.8	566.6	520.2	46.39	12.214	
8,600.0	8,384.5	8,657.9	8,383.5	18.8	36.1	124.95	575.0	1,765.0	567.3	520.8	46.52	12.195	
8,700.0	8,484.5	8,758.8	8,484.5	18.8	36.2	124.95	575.0	1,765.0	567.3	520.7	46.60	12.174	
8,800.0	8,584.5	8,858.8	8,584.5	18.9	36.2	124.95	575.0	1,765.0	567.3	520.6	46.69	12.151	
8,900.0	8,684.5	8,958.8	8,684.5	19.0	36.2	124.95	575.0	1,765.0	567.3	520.5	46.78	12.128	
9,000.0	8,784.5	9,058.8	8,784.5	19.0	36.3	124.95	575.0	1,765.0	567.3	520.4	46.87	12.104	
9,100.0	8,884.5	9,158.8	8,884.5	19.1	36.3	124.95	575.0	1,765.0	567.3	520.4	46.96	12.081	
9,200.0	8,984.5	9,258.8	8,984.5	19.1	36.3	124.95	575.0	1,765.0	567.3	520.3	47.05	12.058	
9,300.0	9,084.5	9,358.8	9,084.5	19.2	36.3	124.95	575.0	1,765.0	567.3	520.2	47.14	12.035	
9,400.0	9,184.5	9,458.8	9,184.5	19.3	36.4	124.95	575.0	1,765.0	567.3	520.1	47.23	12.011	
9,500.0	9,284.5	9,558.8	9,284.5	19.3	36.4	124.95	575.0	1,765.0	567.3	520.0	47.32	11.988	
9,600.0	9,384.4	9,658.8	9,384.4	19.4	36.4	124.95	575.0	1,765.0	567.3	519.9	47.42	11.964	
9,608.0	9,392.5	9,666.9	9,392.5	19.4	36.4	124.95	575.0	1,765.0	567.3	519.9	47.43	11.962	
9,625.0	9,409.5	9,683.8	9,409.5	19.4	36.4	-58.09	575.0	1,765.0	567.2	519.7	47.44	11.955	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: FURY ROAD PROJECT - FURY ROAD FED COM 523H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,650.0	9,434.4	9,708.8	9,434.4	19.4	36.4	-58.31	575.0	1,765.0	566.3	518.9	47.49	11.926	
9,675.0	9,459.2	9,733.6	9,459.2	19.4	36.5	-58.70	575.0	1,765.0	564.9	517.3	47.56	11.876	
9,700.0	9,483.9	9,758.3	9,483.9	19.3	36.5	-59.28	575.0	1,765.0	562.7	515.0	47.66	11.806	
9,725.0	9,508.3	9,782.7	9,508.3	19.3	36.5	-60.04	575.0	1,765.0	559.9	512.1	47.79	11.715	
9,750.0	9,532.4	9,806.8	9,532.4	19.3	36.5	-60.98	575.0	1,765.0	556.5	508.6	47.95	11.605	
9,775.0	9,556.1	9,830.5	9,556.1	19.3	36.5	-62.10	575.0	1,765.0	552.6	504.4	48.14	11.478	
9,800.0	9,579.3	9,853.7	9,579.3	19.2	36.5	-63.38	575.0	1,765.0	548.1	499.8	48.37	11.333	
9,825.0	9,602.1	9,876.5	9,602.1	19.2	36.5	-64.83	575.0	1,765.0	543.2	494.6	48.62	11.173	
9,850.0	9,624.2	9,898.6	9,624.2	19.2	36.5	-66.43	575.0	1,765.0	538.0	489.1	48.91	11.000	
9,875.0	9,645.8	9,920.1	9,645.8	19.2	36.5	-68.17	575.0	1,765.0	532.4	483.2	49.23	10.815	
9,900.0	9,666.6	9,941.0	9,666.6	19.1	36.5	-70.02	575.0	1,765.0	526.7	477.1	49.59	10.621	
9,925.0	9,686.7	9,961.1	9,686.7	19.1	36.5	-71.98	575.0	1,765.0	520.8	470.8	49.98	10.420	
9,950.0	9,706.0	9,980.3	9,706.0	19.1	36.5	-74.01	575.0	1,765.0	514.9	464.5	50.41	10.216	
9,975.0	9,724.4	9,998.8	9,724.4	19.1	36.5	-76.08	575.0	1,765.0	509.2	458.3	50.87	10.010	
10,000.0	9,741.9	10,016.3	9,741.9	19.1	36.5	-78.15	575.0	1,765.0	503.7	452.3	51.36	9.807	
10,025.0	9,758.5	10,032.8	9,758.5	19.0	36.5	-80.20	575.0	1,765.0	498.5	446.6	51.87	9.609	
10,050.0	9,774.0	10,048.4	9,774.0	19.0	36.5	-82.19	575.0	1,765.0	493.7	441.3	52.41	9.421	
10,075.0	9,788.5	10,062.9	9,788.5	19.0	36.5	-84.07	575.0	1,765.0	489.6	436.7	52.96	9.245	
10,100.0	9,801.9	10,076.3	9,801.9	19.0	36.6	-85.82	575.0	1,765.0	486.2	432.7	53.52	9.084	
10,125.0	9,814.2	10,088.6	9,814.2	19.0	36.6	-87.40	575.0	1,765.0	483.6	429.5	54.08	8.943	
10,150.0	9,825.4	10,099.7	9,825.4	19.0	36.6	-88.78	575.0	1,765.0	482.0	427.4	54.62	8.824	
10,175.0	9,835.3	10,109.7	9,835.3	19.0	36.6	-89.94	575.0	1,765.0	481.4	426.2	55.14	8.729	
10,176.4	9,835.9	10,110.2	9,835.9	19.0	36.6	-90.00	575.0	1,765.0	481.4	426.2	55.17	8.725	
10,200.0	9,844.0	10,118.4	9,844.0	19.0	36.6	-90.85	575.0	1,765.0	481.9	426.2	55.63	8.662	
10,225.0	9,851.6	10,125.9	9,851.6	19.0	36.6	-91.50	575.0	1,765.0	483.6	427.5	56.08	8.622	
10,250.0	9,857.8	10,132.2	9,857.8	19.0	36.6	-91.87	575.0	1,765.0	486.5	430.0	56.48	8.613	
10,275.0	9,862.8	10,137.1	9,862.8	19.1	36.6	-91.95	575.0	1,765.0	490.6	433.8	56.82	8.633	
10,300.0	9,866.4	10,140.8	9,866.4	19.1	36.6	-91.72	575.0	1,765.0	495.9	438.8	57.11	8.684	
10,325.0	9,868.8	10,143.2	9,868.8	19.1	36.6	-91.19	575.0	1,765.0	502.5	445.2	57.33	8.765	
10,350.0	9,869.9	10,144.3	9,869.9	19.1	36.6	-90.34	575.0	1,765.0	510.2	452.7	57.50	8.874	
10,358.0	9,870.0	10,144.3	9,870.0	19.1	36.6	-90.00	575.0	1,765.0	513.0	455.4	57.54	8.915	
10,400.0	9,870.0	10,144.3	9,870.0	19.2	36.6	-90.00	575.0	1,765.0	528.9	471.3	57.67	9.172	
10,500.0	9,870.0	10,144.3	9,870.0	19.3	36.6	-90.00	575.0	1,765.0	577.6	520.1	57.47	10.050	
10,600.0	9,870.0	10,144.3	9,870.0	19.5	36.6	-90.00	575.0	1,765.0	638.3	581.5	56.85	11.228	
10,633.0	9,870.0	10,144.3	9,870.0	19.5	36.6	-90.00	575.0	1,765.0	660.5	603.9	56.59	11.671	
10,700.0	9,870.0	10,144.3	9,870.0	19.6	36.6	-90.00	575.0	1,765.0	707.5	651.5	56.04	12.625	
10,762.7	9,870.0	10,144.3	9,870.0	19.7	36.6	-90.00	575.0	1,765.0	753.3	697.8	55.50	13.574	
10,800.0	9,870.0	10,144.3	9,870.0	19.8	36.6	-90.00	575.0	1,765.0	781.4	726.2	55.17	14.164	
10,900.0	9,870.0	10,987.3	10,369.0	20.0	36.9	-127.35	45.9	1,910.8	839.7	795.3	44.35	18.931	
11,000.0	9,870.0	11,115.3	10,369.0	20.2	37.2	-126.15	-79.0	1,939.2	858.1	813.6	44.48	19.291	
11,100.0	9,870.0	11,245.9	10,369.0	20.5	37.5	-125.21	-207.5	1,962.3	873.2	828.6	44.57	19.592	
11,200.0	9,870.0	11,378.4	10,369.0	20.7	37.9	-124.52	-338.8	1,979.8	884.6	840.0	44.60	19.832	
11,300.0	9,870.0	11,512.3	10,369.0	21.0	38.3	-124.07	-472.2	1,991.2	892.3	847.7	44.60	20.007	
11,400.0	9,870.0	11,647.1	10,369.0	21.4	38.7	-123.85	-607.0	1,996.5	896.1	851.5	44.55	20.116	
11,500.0	9,870.0	11,754.6	10,369.0	21.7	39.0	-123.79	-714.4	1,997.2	897.2	852.5	44.71	20.069	
11,600.0	9,870.0	11,854.6	10,369.0	22.1	39.3	-123.75	-814.4	1,997.7	898.2	853.2	44.99	19.967	
11,700.0	9,870.0	11,961.9	10,369.0	22.4	39.7	-123.71	-921.7	1,998.1	899.2	853.9	45.26	19.866	
11,800.0	9,870.0	12,084.6	10,369.0	22.9	40.1	-123.78	-1,044.4	1,995.2	897.7	852.3	45.43	19.761	
11,900.0	9,870.0	12,184.6	10,369.0	23.3	40.5	-123.88	-1,144.3	1,991.7	895.4	849.6	45.82	19.540	
12,000.0	9,870.0	12,284.5	10,369.0	23.7	40.9	-123.98	-1,244.2	1,988.2	893.1	846.8	46.27	19.301	
12,100.0	9,870.0	12,384.5	10,369.0	24.2	41.2	-124.08	-1,344.1	1,984.7	890.8	844.0	46.77	19.045	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: FURY ROAD PROJECT - FURY ROAD FED COM 523H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
12,200.0	9,870.0	12,484.4	10,369.0	24.7	41.7	-124.18	-1,444.0	1,981.2	888.5	841.1	47.32	18.774	
12,300.0	9,870.0	12,584.4	10,369.0	25.2	42.1	-124.28	-1,543.9	1,977.7	886.2	838.2	47.92	18.491	
12,400.0	9,870.0	12,684.4	10,369.0	25.8	42.5	-124.38	-1,643.8	1,974.2	883.9	835.3	48.57	18.198	
12,500.0	9,870.0	12,777.2	10,369.0	26.3	42.9	-124.47	-1,736.6	1,971.1	881.7	832.4	49.30	17.885	
12,564.8	9,870.0	12,828.9	10,369.0	26.7	43.2	-124.49	-1,788.2	1,970.3	881.2	831.4	49.86	17.672	
12,600.0	9,870.0	12,857.0	10,369.0	26.9	43.3	-124.48	-1,816.3	1,970.2	881.4	831.2	50.18	17.563	
12,700.0	9,870.0	12,936.7	10,369.0	27.5	43.7	-124.41	-1,896.0	1,971.5	883.3	832.2	51.14	17.274	
12,800.0	9,870.0	13,023.2	10,369.0	28.1	44.2	-124.26	-1,982.4	1,975.3	887.5	835.3	52.13	17.022	
12,900.0	9,870.0	13,123.0	10,369.0	28.7	44.7	-124.05	-2,082.2	1,980.2	892.1	838.9	53.14	16.787	
13,000.0	9,870.0	13,222.9	10,369.0	29.3	45.3	-123.85	-2,181.9	1,985.0	896.7	842.5	54.19	16.548	
13,100.0	9,870.0	13,322.7	10,369.0	29.9	45.9	-123.65	-2,281.6	1,989.9	901.4	846.1	55.27	16.308	
13,200.0	9,870.0	13,422.6	10,369.0	30.6	46.4	-123.46	-2,381.3	1,994.8	906.0	849.7	56.39	16.068	
13,300.0	9,870.0	13,547.1	10,369.0	31.2	47.2	-123.27	-2,505.8	1,999.4	909.8	852.3	57.46	15.834	
13,400.0	9,870.0	13,655.6	10,369.0	31.9	47.8	-123.22	-2,614.3	2,000.1	910.9	852.4	58.53	15.563	
13,500.0	9,870.0	13,755.6	10,369.0	32.6	48.4	-123.17	-2,714.3	2,000.6	912.0	852.3	59.65	15.288	
13,600.0	9,870.0	13,855.6	10,369.0	33.3	49.0	-123.13	-2,814.3	2,001.2	913.0	852.2	60.80	15.016	
13,700.0	9,870.0	13,955.6	10,369.0	34.0	49.7	-123.09	-2,914.3	2,001.7	914.0	852.1	61.97	14.749	
13,800.0	9,870.0	14,055.6	10,369.0	34.7	50.3	-123.05	-3,014.2	2,002.2	915.1	851.9	63.17	14.485	
13,900.0	9,870.0	14,155.6	10,369.0	35.4	50.9	-123.01	-3,114.2	2,002.7	916.1	851.7	64.39	14.227	
14,000.0	9,870.0	14,255.6	10,369.0	36.1	51.6	-122.96	-3,214.2	2,003.3	917.1	851.5	65.63	13.974	
14,100.0	9,870.0	14,355.6	10,369.0	36.8	52.3	-122.92	-3,314.2	2,003.8	918.2	851.3	66.89	13.726	
14,200.0	9,870.0	14,455.6	10,369.0	37.5	52.9	-122.88	-3,414.2	2,004.3	919.2	851.0	68.17	13.484	
14,300.0	9,870.0	14,555.5	10,369.0	38.3	53.6	-122.84	-3,514.2	2,004.8	920.2	850.8	69.47	13.247	
14,400.0	9,870.0	14,655.5	10,369.0	39.0	54.3	-122.80	-3,614.2	2,005.4	921.3	850.5	70.78	13.016	
14,500.0	9,870.0	14,755.5	10,369.0	39.8	55.0	-122.76	-3,714.2	2,005.9	922.3	850.2	72.11	12.790	
14,600.0	9,870.0	14,855.5	10,369.0	40.5	55.7	-122.71	-3,814.2	2,006.4	923.4	849.9	73.46	12.570	
14,700.0	9,870.0	14,955.5	10,369.0	41.3	56.4	-122.67	-3,914.2	2,006.9	924.4	849.6	74.81	12.356	
14,800.0	9,870.0	15,055.5	10,369.0	42.0	57.1	-122.63	-4,014.2	2,007.4	925.4	849.2	76.19	12.147	
14,900.0	9,870.0	15,155.5	10,369.0	42.8	57.9	-122.59	-4,114.1	2,008.0	926.5	848.9	77.57	11.943	
15,000.0	9,870.0	15,255.5	10,369.0	43.6	58.6	-122.55	-4,214.1	2,008.5	927.5	848.5	78.97	11.745	
15,100.0	9,870.0	15,355.5	10,369.0	44.3	59.4	-122.51	-4,314.1	2,009.0	928.6	848.2	80.38	11.552	
15,200.0	9,870.0	15,455.5	10,369.0	45.1	60.1	-122.47	-4,414.1	2,009.5	929.6	847.8	81.80	11.364	
15,300.0	9,870.0	15,555.5	10,369.0	45.9	60.9	-122.43	-4,514.1	2,010.1	930.6	847.4	83.24	11.181	
15,400.0	9,870.0	15,655.5	10,369.0	46.7	61.6	-122.39	-4,614.1	2,010.6	931.7	847.0	84.68	11.002	
15,500.0	9,870.0	15,755.5	10,369.0	47.5	62.4	-122.35	-4,714.1	2,011.1	932.7	846.6	86.13	10.829	
15,600.0	9,870.0	15,855.4	10,369.0	48.2	63.2	-122.30	-4,814.1	2,011.6	933.8	846.2	87.59	10.660	
15,700.0	9,870.0	15,955.4	10,369.0	49.0	63.9	-122.26	-4,914.1	2,012.1	934.8	845.7	89.06	10.496	
15,800.0	9,870.0	16,055.4	10,369.0	49.8	64.7	-122.22	-5,014.1	2,012.7	935.8	845.3	90.54	10.336	
15,900.0	9,870.0	16,155.4	10,369.0	50.6	65.5	-122.18	-5,114.1	2,013.2	936.9	844.9	92.03	10.181	
16,000.0	9,870.0	16,255.4	10,369.0	51.4	66.3	-122.14	-5,214.0	2,013.7	937.9	844.4	93.52	10.029	
16,100.0	9,870.0	16,355.4	10,369.0	52.2	67.1	-122.10	-5,314.0	2,014.2	939.0	844.0	95.02	9.882	
16,200.0	9,870.0	16,455.4	10,369.0	53.0	67.9	-122.06	-5,414.0	2,014.8	940.0	843.5	96.53	9.738	
16,300.0	9,870.0	16,555.4	10,369.0	53.8	68.7	-122.02	-5,514.0	2,015.3	941.1	843.0	98.04	9.598	
16,400.0	9,870.0	16,655.4	10,369.0	54.6	69.5	-121.98	-5,614.0	2,015.8	942.1	842.5	99.57	9.462	
16,500.0	9,870.0	16,755.4	10,369.0	55.4	70.3	-121.94	-5,714.0	2,016.3	943.2	842.1	101.09	9.330	
16,600.0	9,870.0	16,855.4	10,369.0	56.2	71.1	-121.90	-5,814.0	2,016.9	944.2	841.6	102.63	9.200	
16,700.0	9,870.0	16,955.4	10,369.0	57.0	72.0	-121.87	-5,914.0	2,017.4	945.3	841.1	104.17	9.075	
16,800.0	9,870.0	17,055.4	10,369.0	57.9	72.8	-121.83	-6,014.0	2,017.9	946.3	840.6	105.71	8.952	
16,900.0	9,870.0	17,155.3	10,369.0	58.7	73.6	-121.79	-6,114.0	2,018.4	947.4	840.1	107.26	8.832	
17,000.0	9,870.0	17,255.3	10,369.0	59.5	74.5	-121.75	-6,214.0	2,018.9	948.4	839.6	108.81	8.716	
17,100.0	9,870.0	17,355.3	10,369.0	60.3	75.3	-121.71	-6,313.9	2,019.5	949.4	839.1	110.37	8.602	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: FURY ROAD PROJECT - FURY ROAD FED COM 523H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
17,200.0	9,870.0	17,455.3	10,369.0	61.1	76.1	-121.67	-6,413.9	2,020.0	950.5	838.6	111.94	8.491	
17,300.0	9,870.0	17,555.3	10,369.0	61.9	77.0	-121.63	-6,513.9	2,020.5	951.5	838.0	113.51	8.383	
17,400.0	9,870.0	17,655.3	10,369.0	62.7	77.8	-121.59	-6,613.9	2,021.0	952.6	837.5	115.08	8.278	
17,500.0	9,870.0	17,755.3	10,369.0	63.6	78.7	-121.55	-6,713.9	2,021.6	953.7	837.0	116.66	8.175	
17,600.0	9,870.0	17,855.3	10,369.0	64.4	79.5	-121.51	-6,813.9	2,022.1	954.7	836.5	118.24	8.074	
17,700.0	9,870.0	17,955.3	10,369.0	65.2	80.4	-121.47	-6,913.9	2,022.6	955.8	835.9	119.82	7.976	
17,800.0	9,870.0	18,055.3	10,369.0	66.0	81.2	-121.44	-7,013.9	2,023.1	956.8	835.4	121.41	7.881	
17,900.0	9,870.0	18,155.3	10,369.0	66.9	82.1	-121.40	-7,113.9	2,023.7	957.9	834.9	123.01	7.787	
18,000.0	9,870.0	18,255.3	10,369.0	67.7	82.9	-121.36	-7,213.9	2,024.2	958.9	834.3	124.60	7.696	
18,100.0	9,870.0	18,355.3	10,369.0	68.5	83.8	-121.32	-7,313.9	2,024.7	960.0	833.8	126.20	7.607	
18,200.0	9,870.0	18,455.2	10,369.0	69.3	84.7	-121.28	-7,413.8	2,025.2	961.0	833.2	127.81	7.519	
18,300.0	9,870.0	18,555.2	10,369.0	70.2	85.5	-121.24	-7,513.8	2,025.7	962.1	832.7	129.41	7.434	
18,400.0	9,870.0	18,655.2	10,369.0	71.0	86.4	-121.21	-7,613.8	2,026.3	963.1	832.1	131.02	7.351	
18,500.0	9,870.0	18,755.2	10,369.0	71.8	87.3	-121.17	-7,713.8	2,026.8	964.2	831.6	132.63	7.270	
18,600.0	9,870.0	18,855.2	10,369.0	72.7	88.2	-121.13	-7,813.8	2,027.3	965.2	831.0	134.25	7.190	
18,700.0	9,870.0	18,955.2	10,369.0	73.5	89.0	-121.09	-7,913.8	2,027.8	966.3	830.4	135.87	7.112	
18,800.0	9,870.0	19,055.2	10,369.0	74.3	89.9	-121.06	-8,013.8	2,028.4	967.4	829.9	137.49	7.036	
18,900.0	9,870.0	19,155.2	10,369.0	75.2	90.8	-121.02	-8,113.8	2,028.9	968.4	829.3	139.11	6.961	
19,000.0	9,870.0	19,255.2	10,369.0	76.0	91.7	-120.98	-8,213.8	2,029.4	969.5	828.7	140.74	6.889	
19,100.0	9,870.0	19,355.2	10,369.0	76.8	92.6	-120.94	-8,313.8	2,029.9	970.5	828.2	142.36	6.817	
19,200.0	9,870.0	19,455.2	10,369.0	77.7	93.5	-120.91	-8,413.8	2,030.4	971.6	827.6	144.00	6.747	
19,300.0	9,870.0	19,555.2	10,369.0	78.5	94.3	-120.87	-8,513.8	2,031.0	972.6	827.0	145.63	6.679	
19,400.0	9,870.0	19,655.2	10,369.0	79.3	95.2	-120.83	-8,613.7	2,031.5	973.7	826.4	147.26	6.612	
19,500.0	9,870.0	19,755.1	10,369.0	80.2	96.1	-120.79	-8,713.7	2,032.0	974.8	825.9	148.90	6.546	
19,600.0	9,870.0	19,855.1	10,369.0	81.0	97.0	-120.76	-8,813.7	2,032.5	975.8	825.3	150.54	6.482	
19,700.0	9,870.0	19,955.1	10,369.0	81.8	97.9	-120.72	-8,913.7	2,033.1	976.9	824.7	152.18	6.419	
19,800.0	9,870.0	20,055.1	10,369.0	82.7	98.8	-120.68	-9,013.7	2,033.6	977.9	824.1	153.83	6.357	
19,900.0	9,870.0	20,155.1	10,369.0	83.5	99.7	-120.65	-9,113.7	2,034.1	979.0	823.5	155.47	6.297	
20,000.0	9,870.0	20,255.1	10,369.0	84.4	100.6	-120.61	-9,213.7	2,034.6	980.1	822.9	157.12	6.238	
20,100.0	9,870.0	20,355.1	10,369.0	85.2	101.5	-120.57	-9,313.7	2,035.2	981.1	822.4	158.77	6.179	
20,200.0	9,870.0	20,455.1	10,369.0	86.0	102.4	-120.54	-9,413.7	2,035.7	982.2	821.8	160.43	6.122	
20,300.0	9,870.0	20,555.1	10,369.0	86.9	103.3	-120.50	-9,513.7	2,036.2	983.2	821.2	162.08	6.066	
20,400.0	9,870.0	20,655.1	10,369.0	87.7	104.2	-120.46	-9,613.7	2,036.7	984.3	820.6	163.73	6.012	
20,500.0	9,870.0	20,755.1	10,369.0	88.6	105.1	-120.43	-9,713.6	2,037.2	985.4	820.0	165.39	5.958	
20,600.0	9,870.0	20,855.1	10,369.0	89.4	106.0	-120.39	-9,813.6	2,037.8	986.4	819.4	167.05	5.905	
20,700.0	9,870.0	20,955.1	10,369.0	90.2	106.9	-120.35	-9,913.6	2,038.3	987.5	818.8	168.71	5.853	
20,800.0	9,870.0	21,055.0	10,369.0	91.1	107.8	-120.32	-10,013.6	2,038.8	988.6	818.2	170.38	5.802	
20,900.0	9,870.0	21,155.0	10,369.0	91.9	108.7	-120.28	-10,113.6	2,039.3	989.6	817.6	172.04	5.752	
21,000.0	9,870.0	21,255.0	10,369.0	92.8	109.7	-120.25	-10,213.6	2,039.9	990.7	817.0	173.71	5.703	
21,100.0	9,870.0	21,355.0	10,369.0	93.6	110.6	-120.21	-10,313.6	2,040.4	991.8	816.4	175.37	5.655	
21,200.0	9,870.0	21,455.0	10,369.0	94.5	111.5	-120.17	-10,413.6	2,040.9	992.8	815.8	177.04	5.608	
21,300.0	9,870.0	21,555.0	10,369.0	95.3	112.4	-120.14	-10,513.6	2,041.4	993.9	815.2	178.71	5.561	
21,400.0	9,870.0	21,655.0	10,369.0	96.1	113.3	-120.10	-10,613.6	2,042.0	995.0	814.6	180.38	5.516	
21,500.0	9,870.0	21,755.0	10,369.0	97.0	114.2	-120.07	-10,713.6	2,042.5	996.0	814.0	182.06	5.471	
21,600.0	9,870.0	21,855.0	10,369.0	97.8	115.1	-120.03	-10,813.5	2,043.0	997.1	813.4	183.73	5.427	
21,700.0	9,870.0	21,955.0	10,369.0	98.7	116.1	-120.00	-10,913.5	2,043.5	998.2	812.8	185.41	5.384	
21,800.0	9,870.0	22,055.0	10,369.0	99.5	117.0	-119.96	-11,013.5	2,044.0	999.2	812.2	187.08	5.341	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: OHANA PROJECT - SANDY FEDERAL 22H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 80-r.5 MWD

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
12,100.0	9,870.0	9,920.6	9,892.7	24.2	13.8	-91.58	-1,818.7	2,066.9	960.6	928.5	32.04	29.983	
12,200.0	9,870.0	9,920.0	9,892.1	24.7	13.8	-91.54	-1,818.7	2,066.9	913.1	879.9	33.19	27.508	
12,300.0	9,870.0	9,919.4	9,891.5	25.2	13.8	-91.50	-1,818.7	2,066.9	874.6	839.9	34.62	25.260	
12,400.0	9,870.0	9,918.8	9,890.9	25.8	13.8	-91.46	-1,818.7	2,066.9	846.1	809.9	36.27	23.331	
12,500.0	9,870.0	9,918.2	9,890.3	26.3	13.8	-91.42	-1,818.7	2,066.9	828.9	790.9	38.02	21.800	
12,594.6	9,870.0	9,917.7	9,889.8	26.8	13.8	-91.38	-1,818.7	2,067.0	823.5	783.8	39.67	20.761 CC	
12,600.0	9,870.0	9,917.6	9,889.7	26.9	13.8	-91.38	-1,818.7	2,067.0	823.5	783.7	39.76	20.714 ES	
12,700.0	9,870.0	9,917.0	9,889.1	27.5	13.8	-91.33	-1,818.7	2,067.0	830.2	788.9	41.33	20.086	
12,800.0	9,870.0	9,916.5	9,888.6	28.1	13.8	-91.29	-1,818.7	2,067.0	848.7	806.1	42.65	19.899 SF	
12,900.0	9,870.0	9,915.9	9,888.0	28.7	13.8	-91.25	-1,818.7	2,067.0	878.3	834.6	43.66	20.115	
13,000.0	9,870.0	9,915.3	9,887.4	29.3	13.8	-91.21	-1,818.7	2,067.0	917.9	873.5	44.37	20.685	
13,100.0	9,870.0	9,914.7	9,886.8	29.9	13.8	-91.17	-1,818.7	2,067.0	966.2	921.4	44.82	21.560	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - _THUNDERDOME FED COM 503H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	49.0	0.0	0.0	-0.08	449.3	-0.7	452.0				
100.0	100.0	51.0	100.0	0.8	0.6	-0.08	449.3	-0.7	449.3	447.5	1.85	242.619	
200.0	200.0	151.0	200.0	1.4	1.5	-0.08	449.3	-0.7	449.3	446.0	3.34	134.393	
300.0	300.0	251.0	300.0	1.9	1.9	-0.08	449.3	-0.7	449.3	445.1	4.23	106.331	
400.0	400.0	351.0	400.0	2.2	2.3	-0.08	449.3	-0.7	449.3	444.4	4.94	90.971	
500.0	500.0	451.0	500.0	2.6	2.6	-0.08	449.3	-0.7	449.3	443.8	5.56	80.849	
600.0	600.0	551.0	600.0	2.8	2.9	-0.08	449.3	-0.7	449.3	443.2	6.11	73.508	
700.0	700.0	651.0	700.0	3.1	3.1	-0.08	449.3	-0.7	449.3	442.7	6.62	67.856	
800.0	800.0	751.0	800.0	3.3	3.4	-0.08	449.3	-0.7	449.3	442.2	7.10	63.325	
900.0	900.0	851.0	900.0	3.6	3.6	-0.08	449.3	-0.7	449.3	441.8	7.54	59.582	
1,000.0	1,000.0	951.0	1,000.0	3.8	3.8	-0.08	449.3	-0.7	449.3	441.4	7.96	56.420	
1,100.0	1,100.0	1,051.0	1,100.0	4.0	4.0	-0.08	449.3	-0.7	449.3	441.0	8.37	53.701	
1,200.0	1,200.0	1,151.0	1,200.0	4.2	4.2	-0.08	449.3	-0.7	449.3	440.6	8.75	51.329	
1,300.0	1,300.0	1,251.0	1,300.0	4.4	4.4	-0.08	449.3	-0.7	449.3	440.2	9.13	49.234	
1,400.0	1,400.0	1,351.0	1,400.0	4.6	4.6	-0.08	449.3	-0.7	449.3	439.9	9.49	47.366	
1,500.0	1,500.0	1,451.0	1,500.0	4.7	4.7	-0.08	449.3	-0.7	449.3	439.5	9.84	45.686	
1,600.0	1,600.0	1,551.0	1,600.0	5.0	4.9	-55.59	449.3	-0.7	448.4	438.1	10.20	43.946	
1,700.0	1,699.8	1,650.8	1,699.8	5.3	5.1	-56.19	449.3	-0.7	445.4	434.9	10.55	42.202	
1,800.0	1,799.5	1,750.5	1,799.5	5.5	5.2	-57.21	449.3	-0.7	440.6	429.7	10.89	40.442	
1,900.0	1,898.7	1,847.4	1,896.4	5.8	5.4	-58.68	449.4	-1.0	434.2	423.0	11.22	38.701	
2,000.0	1,997.5	1,941.1	1,990.0	6.0	5.7	-60.87	450.3	-4.0	427.4	415.9	11.53	37.071	
2,100.0	2,095.6	2,033.0	2,081.8	6.2	5.9	-63.82	451.9	-9.8	420.9	409.1	11.83	35.591	
2,200.0	2,193.1	2,122.9	2,171.2	6.5	6.1	-67.49	454.2	-18.2	415.8	403.7	12.12	34.294	
2,300.0	2,289.6	2,210.2	2,257.8	6.7	6.4	-71.75	457.1	-28.9	413.1	400.7	12.42	33.270	
2,337.9	2,326.0	2,245.2	2,292.5	6.7	6.4	-73.61	458.5	-33.7	412.9	400.4	12.52	32.984 CC	
2,341.2	2,329.2	2,248.2	2,295.4	6.7	6.5	-73.78	458.6	-34.2	412.9	400.4	12.53	32.960 ES	
2,400.0	2,385.4	2,302.4	2,349.0	6.8	6.6	-76.70	460.6	-41.6	413.6	400.9	12.71	32.546	
2,500.0	2,481.2	2,394.4	2,440.1	7.0	6.8	-81.64	464.1	-54.3	417.7	404.6	13.07	31.958	
2,600.0	2,576.9	2,486.5	2,531.3	7.1	7.0	-86.46	467.6	-67.0	425.3	411.8	13.47	31.576	
2,700.0	2,672.6	2,578.6	2,622.4	7.3	7.3	-91.10	471.1	-79.7	436.3	422.4	13.90	31.377	
2,800.0	2,768.3	2,670.7	2,713.6	7.5	7.6	-95.51	474.6	-92.4	450.4	436.0	14.37	31.339 SF	
2,900.0	2,864.0	2,762.8	2,804.7	7.6	7.8	-99.67	478.1	-105.1	467.3	452.5	14.86	31.440	
3,000.0	2,959.8	2,854.9	2,895.8	7.8	8.1	-103.56	481.6	-117.8	486.8	471.5	15.38	31.658	
3,100.0	3,055.5	2,946.9	2,987.0	8.0	8.4	-107.16	485.1	-130.5	508.6	492.7	15.91	31.974	
3,200.0	3,151.2	3,039.0	3,078.1	8.2	8.7	-110.49	488.7	-143.2	532.3	515.8	16.44	32.369	
3,300.0	3,246.9	3,131.1	3,169.2	8.4	9.0	-113.55	492.2	-155.9	557.7	540.7	16.99	32.827	
3,400.0	3,342.6	3,223.2	3,260.4	8.6	9.3	-116.36	495.7	-168.6	584.6	567.1	17.54	33.333	
3,500.0	3,438.4	3,315.3	3,351.5	8.8	9.7	-118.94	499.2	-181.3	612.9	594.8	18.09	33.875	
3,600.0	3,534.1	3,407.3	3,442.6	9.0	10.0	-121.30	502.7	-194.0	642.2	623.6	18.65	34.443	
3,700.0	3,629.8	3,499.4	3,533.8	9.2	10.3	-123.47	506.2	-206.7	672.5	653.3	19.20	35.028	
3,800.0	3,725.5	3,591.5	3,624.9	9.4	10.7	-125.46	509.7	-219.4	703.7	684.0	19.76	35.622	
3,900.0	3,821.2	3,683.6	3,716.0	9.6	11.0	-127.29	513.2	-232.0	735.7	715.4	20.31	36.224	
4,000.0	3,917.0	3,787.8	3,819.3	9.8	11.5	-129.18	516.9	-245.7	767.6	746.5	21.10	36.385	
4,100.0	4,012.7	3,895.3	3,926.1	10.0	11.9	-130.98	520.3	-258.0	798.5	776.7	21.75	36.718	
4,200.0	4,108.4	4,004.1	4,034.3	10.2	12.3	-132.66	523.2	-268.4	828.1	805.7	22.36	37.037	
4,300.0	4,204.1	4,114.1	4,144.0	10.4	12.7	-134.24	525.5	-276.9	856.4	833.4	22.95	37.315	
4,400.0	4,299.8	4,225.3	4,254.9	10.6	13.1	-135.74	527.3	-283.4	883.3	859.8	23.52	37.559	
4,500.0	4,395.6	4,337.5	4,367.1	10.8	13.4	-137.18	528.6	-287.9	908.8	884.7	24.05	37.784	
4,600.0	4,491.3	4,450.8	4,480.3	11.0	13.7	-138.56	529.2	-290.3	932.8	908.3	24.53	38.027	
4,700.0	4,587.0	4,557.5	4,587.0	11.3	13.9	-139.82	529.3	-290.7	955.5	930.6	24.85	38.447	
4,800.0	4,682.7	4,653.2	4,682.7	11.5	13.9	-140.89	529.3	-290.7	978.2	953.1	25.08	39.006	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - _THUNDERDOME FED COM 504H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+MS

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	49.0	0.0	0.0	2.46	449.3	19.3	452.4				
100.0	100.0	51.0	100.0	0.8	0.6	2.46	449.3	19.3	449.8	447.9	1.85	242.843	
200.0	200.0	151.0	200.0	1.4	1.5	2.46	449.3	19.3	449.8	446.4	3.34	134.517	
300.0	300.0	251.0	300.0	1.9	1.9	2.46	449.3	19.3	449.8	445.5	4.23	106.429	
400.0	400.0	351.0	400.0	2.2	2.3	2.46	449.3	19.3	449.8	444.8	4.94	91.055	
500.0	500.0	451.0	500.0	2.6	2.6	2.46	449.3	19.3	449.8	444.2	5.56	80.924	
600.0	600.0	551.0	600.0	2.8	2.9	2.46	449.3	19.3	449.8	443.6	6.11	73.576	
700.0	700.0	651.0	700.0	3.1	3.1	2.46	449.3	19.3	449.8	443.1	6.62	67.919	
800.0	800.0	751.0	800.0	3.3	3.4	2.46	449.3	19.3	449.8	442.7	7.10	63.384	
900.0	900.0	851.0	900.0	3.6	3.6	2.46	449.3	19.3	449.8	442.2	7.54	59.637	
1,000.0	1,000.0	951.0	1,000.0	3.8	3.8	2.46	449.3	19.3	449.8	441.8	7.96	56.473	
1,100.0	1,100.0	1,051.0	1,100.0	4.0	4.0	2.46	449.3	19.3	449.8	441.4	8.37	53.751	
1,200.0	1,200.0	1,151.0	1,200.0	4.2	4.2	2.46	449.3	19.3	449.8	441.0	8.75	51.376	
1,300.0	1,300.0	1,251.0	1,300.0	4.4	4.4	2.46	449.3	19.3	449.8	440.6	9.13	49.280	
1,400.0	1,400.0	1,351.0	1,400.0	4.6	4.6	2.46	449.3	19.3	449.8	440.3	9.49	47.410	
1,500.0	1,500.0	1,451.0	1,500.0	4.7	4.7	2.46	449.3	19.3	449.8	439.9	9.84	45.728	
1,600.0	1,600.0	1,551.0	1,600.0	5.0	4.9	-53.03	449.3	19.3	448.7	438.5	10.21	43.962	
1,700.0	1,699.8	1,650.8	1,699.8	5.3	5.1	-53.62	449.3	19.3	445.6	435.0	10.56	42.184	
1,800.0	1,799.5	1,750.5	1,799.5	5.5	5.2	-54.62	449.3	19.3	440.5	429.5	10.91	40.382	
1,900.0	1,898.7	1,847.7	1,896.7	5.8	5.4	-55.96	449.5	19.7	433.6	422.4	11.24	38.586	
2,000.0	1,997.5	1,943.1	1,992.0	6.0	5.7	-57.35	450.4	22.8	425.8	414.3	11.55	36.861	
2,100.0	2,095.6	2,038.8	2,087.5	6.2	5.9	-58.77	452.2	28.9	417.2	405.4	11.86	35.189	
2,200.0	2,193.1	2,134.8	2,183.0	6.5	6.2	-60.24	454.9	38.1	407.9	395.7	12.16	33.543	
2,300.0	2,289.6	2,231.1	2,278.5	6.7	6.4	-61.76	458.6	50.4	397.7	385.2	12.46	31.916	
2,341.2	2,329.2	2,270.9	2,317.7	6.7	6.6	-62.40	460.4	56.3	393.3	380.7	12.55	31.341	
2,400.0	2,385.4	2,327.8	2,373.8	6.8	6.7	-63.15	463.2	65.8	387.0	374.3	12.69	30.507	
2,500.0	2,481.2	2,425.0	2,469.1	7.0	7.0	-64.08	468.7	84.4	376.9	363.9	12.98	29.038	
2,600.0	2,576.9	2,523.4	2,564.9	7.1	7.3	-64.60	475.2	106.1	367.3	354.0	13.27	27.684	
2,700.0	2,672.6	2,623.0	2,661.6	7.3	7.6	-65.06	481.9	128.6	357.8	344.2	13.61	26.291	
2,800.0	2,768.3	2,722.5	2,758.3	7.5	7.9	-65.55	488.6	151.1	348.4	334.4	13.94	24.991	
2,900.0	2,864.0	2,822.0	2,855.0	7.6	8.2	-66.07	495.3	173.6	338.9	324.7	14.27	23.745	
3,000.0	2,959.8	2,921.5	2,951.7	7.8	8.6	-66.61	502.0	196.0	329.5	314.9	14.61	22.553	
3,100.0	3,055.5	3,021.0	3,048.4	8.0	8.9	-67.19	508.7	218.5	320.2	305.2	14.95	21.412	
3,200.0	3,151.2	3,120.5	3,145.1	8.2	9.3	-67.80	515.3	241.0	310.8	295.5	15.30	20.320	
3,300.0	3,246.9	3,220.0	3,241.8	8.4	9.7	-68.45	522.0	263.5	301.5	285.9	15.64	19.275	
3,400.0	3,342.6	3,319.5	3,338.5	8.6	10.1	-69.14	528.7	285.9	292.3	276.3	15.99	18.276	
3,500.0	3,438.4	3,419.0	3,435.2	8.8	10.5	-69.88	535.4	308.4	283.1	266.7	16.34	17.320	
3,600.0	3,534.1	3,518.5	3,531.9	9.0	10.9	-70.67	542.1	330.9	273.9	257.2	16.70	16.404	
3,700.0	3,629.8	3,618.0	3,628.6	9.2	11.3	-71.51	548.8	353.4	264.8	247.7	17.05	15.528	
3,800.0	3,725.5	3,717.5	3,725.3	9.4	11.7	-72.41	555.5	375.8	255.8	238.3	17.41	14.689	
3,900.0	3,821.2	3,817.0	3,822.0	9.6	12.1	-73.37	562.2	398.3	246.8	229.0	17.77	13.885	
4,000.0	3,917.0	3,916.5	3,918.7	9.8	12.5	-74.41	568.9	420.8	237.9	219.7	18.14	13.114	
4,100.0	4,012.7	4,016.0	4,015.4	10.0	13.0	-75.53	575.6	443.3	229.0	210.5	18.51	12.374	
4,200.0	4,108.4	4,115.6	4,112.1	10.2	13.4	-76.73	582.3	465.7	220.3	201.4	18.89	11.665	
4,300.0	4,204.1	4,215.1	4,208.8	10.4	13.8	-78.04	589.0	488.2	211.7	192.4	19.27	10.983	
4,400.0	4,299.8	4,314.6	4,305.5	10.6	14.3	-79.45	595.7	510.7	203.2	183.5	19.67	10.329	
4,500.0	4,395.6	4,414.1	4,402.2	10.8	14.7	-80.99	602.3	533.2	194.8	174.7	20.09	9.699	
4,600.0	4,491.3	4,513.6	4,498.9	11.0	15.2	-82.66	609.0	555.6	186.6	166.1	20.52	9.093	
4,700.0	4,587.0	4,613.1	4,595.6	11.3	15.6	-84.49	615.7	578.1	178.6	157.6	20.98	8.511	
4,800.0	4,682.7	4,712.6	4,692.3	11.5	16.1	-86.48	622.4	600.6	170.7	149.2	21.48	7.949	
4,900.0	4,778.4	4,812.1	4,789.0	11.7	16.5	-88.67	629.1	623.1	163.1	141.1	22.01	7.410	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - _THUNDERDOME FED COM 504H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+MS — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
5,000.0	4,874.2	4,911.6	4,885.8	11.9	17.0	-91.06	635.8	645.5	155.7	133.1	22.60	6.891	
5,100.0	4,969.9	5,011.1	4,982.5	12.1	17.4	-93.68	642.5	668.0	148.7	125.4	23.26	6.393	
5,200.0	5,065.6	5,110.6	5,079.2	12.4	17.9	-96.56	649.2	690.5	142.0	118.0	23.99	5.917	
5,300.0	5,161.3	5,210.1	5,175.9	12.6	18.3	-99.71	655.9	713.0	135.6	110.8	24.82	5.465	
5,400.0	5,257.0	5,309.6	5,272.6	12.8	18.8	-103.16	662.6	735.4	129.8	104.0	25.76	5.038	
5,500.0	5,352.8	5,409.1	5,369.3	13.0	19.3	-106.91	669.3	757.9	124.4	97.6	26.81	4.640	
5,600.0	5,448.5	5,508.7	5,466.0	13.3	19.7	-110.99	676.0	780.4	119.6	91.6	27.99	4.274	
5,700.0	5,544.2	5,608.2	5,562.7	13.5	20.2	-115.37	682.7	802.9	115.5	86.2	29.29	3.943	
5,800.0	5,639.9	5,707.7	5,659.4	13.7	20.7	-120.05	689.4	825.3	112.1	81.4	30.69	3.652	
5,900.0	5,735.6	5,807.2	5,756.1	13.9	21.1	-124.98	696.0	847.8	109.5	77.3	32.18	3.403	
6,000.0	5,831.4	5,906.7	5,852.8	14.2	21.6	-130.11	702.7	870.3	107.8	74.1	33.70	3.198	
6,100.0	5,927.1	6,006.2	5,949.5	14.4	22.1	-135.36	709.4	892.8	106.9	71.7	35.22	3.036	
6,142.5	5,967.8	6,048.5	5,990.6	14.5	22.3	-137.61	712.3	902.3	106.8	71.0	35.85	2.980	Normal Operations, CC
6,200.0	6,022.8	6,105.7	6,046.2	14.6	22.5	-140.65	716.1	915.2	107.0	70.3	36.68	2.917	Normal Operations
6,300.0	6,118.5	6,205.2	6,142.9	14.9	23.0	-145.89	722.8	937.7	108.0	69.9	38.04	2.838	Normal Operations, ES
6,400.0	6,214.2	6,303.9	6,238.9	15.1	23.4	-150.97	729.4	959.9	110.0	70.7	39.26	2.802	Normal Operations, SF
6,500.0	6,310.0	6,401.5	6,334.0	15.3	23.9	-155.86	735.6	980.5	114.3	73.9	40.34	2.833	Normal Operations
6,533.1	6,341.7	6,433.7	6,365.6	15.4	24.0	-157.41	737.5	987.0	116.2	75.6	40.65	2.859	Normal Operations
6,600.0	6,405.8	6,498.8	6,429.4	15.5	24.3	-160.34	741.2	999.5	120.7	79.4	41.22	2.927	Normal Operations
6,700.0	6,502.1	6,596.1	6,524.9	15.8	24.8	-164.14	746.4	1,016.9	127.9	85.9	41.97	3.047	
6,800.0	6,598.8	6,693.3	6,620.7	16.0	25.2	-167.31	751.1	1,032.8	135.6	93.0	42.60	3.182	
6,900.0	6,696.0	6,790.4	6,716.7	16.2	25.6	-169.92	755.4	1,047.1	143.6	100.4	43.15	3.328	
7,000.0	6,793.6	6,887.5	6,812.8	16.4	26.1	-172.05	759.2	1,059.8	151.8	108.2	43.65	3.479	
7,100.0	6,891.5	6,984.4	6,909.0	16.6	26.5	-173.78	762.5	1,071.0	160.2	116.1	44.11	3.632	
7,200.0	6,989.8	7,081.3	7,005.4	16.8	26.8	-175.15	765.4	1,080.6	168.6	124.1	44.55	3.785	
7,300.0	7,088.4	7,178.0	7,101.7	17.0	27.2	-176.23	767.8	1,088.6	177.0	132.0	44.96	3.936	
7,400.0	7,187.2	7,274.7	7,198.2	17.2	27.6	-177.05	769.7	1,095.1	185.3	140.0	45.35	4.086	
7,500.0	7,286.3	7,371.2	7,294.6	17.4	27.9	-177.65	771.1	1,099.9	193.6	147.8	45.72	4.233	
7,600.0	7,385.7	7,467.7	7,391.0	17.6	28.2	-178.05	772.1	1,103.3	201.7	155.6	46.06	4.379	
7,700.0	7,485.2	7,564.1	7,487.3	17.8	28.4	-178.28	772.6	1,105.0	209.7	163.4	46.35	4.525	
7,800.0	7,584.8	7,661.6	7,584.8	18.0	28.6	-178.37	772.7	1,105.4	217.5	171.0	46.54	4.674	
7,900.0	7,684.6	7,761.4	7,684.6	18.1	28.6	-178.42	772.7	1,105.4	223.9	177.2	46.70	4.794	
8,000.0	7,784.5	7,861.3	7,784.5	18.3	28.6	-178.45	772.7	1,105.4	228.5	181.6	46.86	4.877	
8,100.0	7,884.5	7,961.2	7,884.5	18.4	28.7	-178.47	772.7	1,105.4	231.4	184.4	47.01	4.922	
8,200.0	7,984.5	8,061.2	7,984.5	18.5	28.7	-178.48	772.7	1,105.4	232.5	185.4	47.14	4.933	
8,215.5	8,000.0	8,076.7	8,000.0	18.5	28.7	-123.18	772.7	1,105.4	232.6	185.4	47.15	4.932	
8,300.0	8,084.5	8,161.2	8,084.5	18.6	28.7	-123.18	772.7	1,105.4	232.6	185.3	47.23	4.924	
8,400.0	8,184.5	8,261.2	8,184.5	18.7	28.8	-123.18	772.7	1,105.4	232.6	185.2	47.32	4.915	
8,500.0	8,284.5	8,361.2	8,284.5	18.7	28.8	-123.18	772.7	1,105.4	232.6	185.1	47.40	4.906	
8,600.0	8,384.5	8,461.2	8,384.5	18.8	28.8	-123.18	772.7	1,105.4	232.6	185.1	47.49	4.897	
8,700.0	8,484.5	8,561.2	8,484.5	18.8	28.9	-123.18	772.7	1,105.4	232.6	185.0	47.58	4.888	
8,800.0	8,584.5	8,661.2	8,584.5	18.9	28.9	-123.18	772.7	1,105.4	232.6	184.9	47.67	4.878	
8,900.0	8,684.5	8,761.2	8,684.5	19.0	28.9	-123.18	772.7	1,105.4	232.6	184.8	47.76	4.869	
9,000.0	8,784.5	8,861.2	8,784.5	19.0	29.0	-123.18	772.7	1,105.4	232.6	184.7	47.85	4.860	
9,100.0	8,884.5	8,961.2	8,884.5	19.1	29.0	-123.18	772.7	1,105.4	232.6	184.6	47.94	4.851	
9,200.0	8,984.5	9,061.2	8,984.5	19.1	29.1	-123.18	772.7	1,105.4	232.6	184.5	48.03	4.842	
9,300.0	9,084.5	9,161.2	9,084.5	19.2	29.1	-123.18	772.7	1,105.4	232.6	184.4	48.12	4.833	
9,400.0	9,184.5	9,261.2	9,184.5	19.3	29.1	-123.18	772.7	1,105.4	232.6	184.3	48.21	4.824	
9,500.0	9,284.5	9,361.2	9,284.5	19.3	29.2	-123.18	772.7	1,105.4	232.6	184.2	48.30	4.815	
9,600.0	9,384.4	9,461.2	9,384.4	19.4	29.2	-123.18	772.7	1,105.4	232.6	184.2	48.40	4.805	
9,608.0	9,392.5	9,469.2	9,392.5	19.4	29.2	-123.18	772.7	1,105.4	232.6	184.1	48.40	4.804	

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Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - _THUNDERDOME FED COM 504H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,625.0	9,409.5	9,486.2	9,409.5	19.4	29.2	53.90	772.7	1,105.4	232.4	184.0	48.41	4.800	
9,650.0	9,434.4	9,515.7	9,438.9	19.4	29.2	54.44	773.1	1,105.4	231.3	182.7	48.59	4.761	
9,675.0	9,459.2	9,548.6	9,471.8	19.4	29.3	55.96	775.4	1,105.3	228.8	179.8	48.94	4.675	
9,700.0	9,483.9	9,580.0	9,502.9	19.3	29.3	58.44	779.7	1,105.3	224.7	175.5	49.28	4.560	
9,725.0	9,508.3	9,609.4	9,531.7	19.3	29.4	61.77	785.6	1,105.3	219.6	170.0	49.58	4.428	
9,750.0	9,532.4	9,636.3	9,557.7	19.3	29.4	65.80	792.6	1,105.2	213.6	163.8	49.80	4.290	
9,775.0	9,556.1	9,660.5	9,580.7	19.3	29.4	70.31	800.1	1,105.1	207.5	157.6	49.87	4.160	
9,800.0	9,579.3	9,681.9	9,600.7	19.2	29.5	75.00	807.6	1,105.1	201.6	151.8	49.73	4.054	
9,825.0	9,602.1	9,700.6	9,617.9	19.2	29.5	79.59	815.0	1,105.0	196.5	147.2	49.31	3.986	
9,850.0	9,624.2	9,716.7	9,632.4	19.2	29.5	83.80	821.9	1,105.0	192.9	144.4	48.56	3.973	
9,875.0	9,645.8	9,730.4	9,644.6	19.2	29.5	87.44	828.1	1,104.9	191.3	143.8	47.46	4.031	
9,880.3	9,650.3	9,733.0	9,646.9	19.1	29.6	88.13	829.3	1,104.9	191.2	144.1	47.18	4.053	
9,900.0	9,666.6	9,741.8	9,654.6	19.1	29.6	90.37	833.5	1,104.9	192.0	146.0	46.03	4.172	
9,925.0	9,686.7	9,750.0	9,661.8	19.1	29.6	92.20	837.6	1,104.8	195.4	151.0	44.35	4.405	
9,950.0	9,706.0	9,758.6	9,669.2	19.1	29.6	93.85	842.0	1,104.8	201.5	158.9	42.59	4.731	
9,975.0	9,724.4	9,764.4	9,674.1	19.1	29.6	94.39	845.0	1,104.8	210.2	169.4	40.87	5.143	
10,000.0	9,741.9	9,768.8	9,677.8	19.1	29.6	94.15	847.4	1,104.8	221.4	182.1	39.33	5.630	
10,025.0	9,758.5	9,771.8	9,680.4	19.0	29.6	93.14	849.0	1,104.7	234.7	196.7	38.03	6.172	
10,050.0	9,774.0	9,775.0	9,683.0	19.0	29.6	91.80	850.7	1,104.7	249.9	212.9	36.99	6.755	
10,075.0	9,788.5	9,775.0	9,683.0	19.0	29.6	89.12	850.7	1,104.7	266.5	230.3	36.22	7.358	
10,100.0	9,801.9	9,775.0	9,683.0	19.0	29.6	86.06	850.7	1,104.7	284.4	248.7	35.66	7.975	
10,125.0	9,814.2	9,775.0	9,683.0	19.0	29.6	82.65	850.7	1,104.7	303.2	267.9	35.27	8.597	
10,150.0	9,825.4	9,775.0	9,683.0	19.0	29.6	78.93	850.7	1,104.7	322.8	287.7	35.01	9.220	
10,175.0	9,835.3	9,768.9	9,677.9	19.0	29.6	73.30	847.4	1,104.8	342.8	307.9	34.89	9.825	
10,200.0	9,844.0	9,765.8	9,675.3	19.0	29.6	68.46	845.7	1,104.8	363.2	328.4	34.81	10.433	
10,225.0	9,851.6	9,762.1	9,672.1	19.0	29.6	63.55	843.8	1,104.8	383.9	349.1	34.79	11.035	
10,250.0	9,857.8	9,757.9	9,668.6	19.0	29.6	58.70	841.6	1,104.8	404.6	369.8	34.80	11.629	
10,275.0	9,862.8	9,750.0	9,661.8	19.1	29.6	53.42	837.6	1,104.8	425.5	390.6	34.85	12.209	
10,300.0	9,866.4	9,750.0	9,661.8	19.1	29.6	49.95	837.6	1,104.8	446.2	411.3	34.86	12.799	
10,325.0	9,868.8	9,742.8	9,655.5	19.1	29.6	45.62	834.0	1,104.9	466.7	431.8	34.92	13.366	
10,350.0	9,869.9	9,737.1	9,650.5	19.1	29.6	41.95	831.2	1,104.9	487.1	452.1	34.97	13.928	
10,358.0	9,870.0	9,735.1	9,648.8	19.1	29.6	40.84	830.3	1,104.9	493.6	458.6	34.99	14.108	
10,400.0	9,870.0	9,725.0	9,639.8	19.2	29.5	39.68	825.6	1,104.9	527.8	492.7	35.09	15.043	
10,500.0	9,870.0	9,700.0	9,617.3	19.3	29.5	36.98	814.7	1,105.0	612.1	576.8	35.37	17.308	
10,600.0	9,870.0	9,687.7	9,606.1	19.5	29.5	35.75	809.9	1,105.1	699.4	663.8	35.59	19.652	
10,633.0	9,870.0	9,682.6	9,601.4	19.5	29.5	35.25	807.9	1,105.1	728.8	693.1	35.66	20.434	
10,700.0	9,870.0	9,675.0	9,594.3	19.6	29.5	32.21	805.1	1,105.1	789.1	753.3	35.79	22.049	
10,762.7	9,870.0	9,664.9	9,584.8	19.7	29.4	28.86	801.5	1,105.1	846.6	810.7	35.90	23.583	
10,800.0	9,870.0	9,660.3	9,580.5	19.8	29.4	28.50	800.0	1,105.1	881.1	845.2	35.95	24.512	
10,900.0	9,870.0	9,650.0	9,570.7	20.0	29.4	27.70	796.7	1,105.2	974.4	938.3	36.06	27.019	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - _THUNDERDOME FED COM 522H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	49.0	0.0	0.0	-2.63	449.3	-20.7	452.5				
100.0	100.0	51.0	100.0	0.8	0.6	-2.63	449.3	-20.7	449.8	448.0	1.85	242.875	
200.0	200.0	151.0	200.0	1.4	1.5	-2.63	449.3	-20.7	449.8	446.5	3.34	134.535	
300.0	300.0	251.0	300.0	1.9	1.9	-2.63	449.3	-20.7	449.8	445.6	4.23	106.443	
400.0	400.0	351.0	400.0	2.2	2.3	-2.63	449.3	-20.7	449.8	444.9	4.94	91.067	
500.0	500.0	451.0	500.0	2.6	2.6	-2.63	449.3	-20.7	449.8	444.3	5.56	80.935	
600.0	600.0	551.0	600.0	2.8	2.9	-2.63	449.3	-20.7	449.8	443.7	6.11	73.585	
700.0	700.0	651.0	700.0	3.1	3.1	-2.63	449.3	-20.7	449.8	443.2	6.62	67.928	
800.0	800.0	751.0	800.0	3.3	3.4	-2.63	449.3	-20.7	449.8	442.7	7.10	63.392	
900.0	900.0	851.0	900.0	3.6	3.6	-2.63	449.3	-20.7	449.8	442.3	7.54	59.645	
1,000.0	1,000.0	951.0	1,000.0	3.8	3.8	-2.63	449.3	-20.7	449.8	441.9	7.96	56.480	
1,010.0	1,010.0	961.0	1,010.0	3.8	3.8	-2.63	449.3	-20.7	449.8	441.8	8.00	56.192 CC	
1,100.0	1,100.0	1,044.6	1,093.6	4.0	4.0	-2.65	449.7	-20.8	450.2	441.8	8.40	53.602 ES	
1,200.0	1,200.0	1,131.9	1,180.8	4.2	4.3	-2.79	452.1	-22.0	453.0	444.2	8.85	51.190	
1,300.0	1,300.0	1,219.0	1,267.8	4.4	4.6	-3.05	456.9	-24.3	458.6	449.3	9.29	49.373	
1,400.0	1,400.0	1,300.0	1,348.5	4.6	4.9	-3.40	463.4	-27.6	467.1	457.4	9.70	48.163	
1,500.0	1,500.0	1,391.7	1,439.5	4.7	5.2	-3.92	473.4	-32.4	478.3	468.1	10.16	47.071	
1,600.0	1,600.0	1,477.2	1,524.0	5.0	5.5	-59.72	485.0	-38.1	491.5	480.9	10.63	46.240	
1,700.0	1,699.8	1,571.7	1,617.0	5.3	5.8	-60.66	499.7	-45.3	505.1	494.0	11.09	45.544	
1,800.0	1,799.5	1,670.0	1,713.9	5.5	6.1	-61.94	515.1	-52.8	517.5	505.9	11.57	44.728	
1,900.0	1,898.7	1,768.0	1,810.4	5.8	6.4	-63.50	530.4	-60.3	528.6	516.6	12.07	43.810	
2,000.0	1,997.5	1,865.7	1,906.6	6.0	6.7	-65.32	545.7	-67.8	538.8	526.3	12.58	42.835	
2,100.0	2,095.6	1,962.9	2,002.2	6.2	7.1	-67.38	560.9	-75.2	548.4	535.2	13.11	41.842	
2,200.0	2,193.1	2,059.4	2,097.3	6.5	7.4	-69.68	576.0	-82.6	557.5	543.9	13.64	40.864	
2,300.0	2,289.6	2,155.2	2,191.6	6.7	7.8	-72.18	591.0	-90.0	566.6	552.4	14.19	39.935	
2,341.2	2,329.2	2,194.4	2,230.2	6.7	7.9	-73.27	597.2	-93.0	570.5	556.1	14.39	39.657	
2,400.0	2,385.4	2,250.3	2,285.2	6.8	8.1	-74.94	605.9	-97.3	576.3	561.6	14.68	39.253	
2,500.0	2,481.2	2,345.3	2,378.8	7.0	8.5	-77.70	620.8	-104.5	587.4	572.2	15.24	38.547	
2,600.0	2,576.9	2,440.3	2,472.4	7.1	8.9	-80.37	635.7	-111.8	599.9	584.1	15.80	37.972	
2,700.0	2,672.6	2,535.3	2,565.9	7.3	9.3	-82.92	650.5	-119.1	613.7	597.4	16.36	37.519	
2,800.0	2,768.3	2,630.3	2,659.5	7.5	9.6	-85.37	665.4	-126.4	628.8	611.9	16.92	37.174	
2,900.0	2,864.0	2,725.3	2,753.0	7.6	10.0	-87.71	680.3	-133.6	645.1	627.6	17.47	36.927	
3,000.0	2,959.8	2,820.3	2,846.6	7.8	10.4	-89.94	695.2	-140.9	662.4	644.4	18.02	36.766	
3,100.0	3,055.5	2,915.3	2,940.1	8.0	10.8	-92.06	710.0	-148.2	680.7	662.1	18.56	36.680	
3,200.0	3,151.2	3,010.4	3,033.7	8.2	11.2	-94.07	724.9	-155.5	699.9	680.8	19.09	36.660 SF	
3,300.0	3,246.9	3,105.4	3,127.3	8.4	11.6	-95.98	739.8	-162.8	719.9	700.3	19.62	36.697	
3,400.0	3,342.6	3,200.4	3,220.8	8.6	12.0	-97.79	754.7	-170.0	740.8	720.6	20.14	36.783	
3,500.0	3,438.4	3,295.4	3,314.4	8.8	12.4	-99.50	769.5	-177.3	762.3	741.6	20.65	36.912	
3,600.0	3,534.1	3,390.4	3,407.9	9.0	12.8	-101.12	784.4	-184.6	784.5	763.3	21.16	37.076	
3,700.0	3,629.8	3,485.4	3,501.5	9.2	13.2	-102.66	799.3	-191.9	807.3	785.6	21.66	37.270	
3,800.0	3,725.5	3,580.4	3,595.0	9.4	13.6	-104.12	814.2	-199.2	830.6	808.4	22.15	37.490	
3,900.0	3,821.2	3,675.4	3,688.6	9.6	14.0	-105.50	829.1	-206.4	854.4	831.8	22.64	37.732	
4,000.0	3,917.0	3,770.4	3,782.1	9.8	14.5	-106.80	843.9	-213.7	878.7	855.6	23.13	37.991	
4,100.0	4,012.7	3,865.5	3,875.7	10.0	14.9	-108.04	858.8	-221.0	903.4	879.8	23.61	38.264	
4,200.0	4,108.4	3,960.5	3,969.3	10.2	15.3	-109.22	873.7	-228.3	928.5	904.4	24.09	38.549	
4,300.0	4,204.1	4,055.5	4,062.8	10.4	15.7	-110.33	888.6	-235.5	954.0	929.4	24.56	38.844	
4,400.0	4,299.8	4,150.5	4,156.4	10.6	16.1	-111.39	903.4	-242.8	979.8	954.7	25.03	39.145	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - _THUNDERDOME FED COM 523H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	49.0	0.0	0.0	5.00	449.3	39.3	453.7				
100.0	100.0	51.0	100.0	0.8	0.6	5.00	449.3	39.3	451.1	449.2	1.85	243.547	
200.0	200.0	151.0	200.0	1.4	1.5	5.00	449.3	39.3	451.1	447.7	3.34	134.907	
300.0	300.0	251.0	300.0	1.9	1.9	5.00	449.3	39.3	451.1	446.8	4.23	106.738	
400.0	400.0	351.0	400.0	2.2	2.3	5.00	449.3	39.3	451.1	446.1	4.94	91.319	
500.0	500.0	451.0	500.0	2.6	2.6	5.00	449.3	39.3	451.1	445.5	5.56	81.158	
600.0	600.0	551.0	600.0	2.8	2.9	5.00	449.3	39.3	451.1	444.9	6.11	73.789	
700.0	700.0	651.0	700.0	3.1	3.1	5.00	449.3	39.3	451.1	444.4	6.62	68.116	
800.0	800.0	751.0	800.0	3.3	3.4	5.00	449.3	39.3	451.1	444.0	7.10	63.567	
900.0	900.0	851.0	900.0	3.6	3.6	5.00	449.3	39.3	451.1	443.5	7.54	59.810	
1,000.0	1,000.0	951.0	1,000.0	3.8	3.8	5.00	449.3	39.3	451.1	443.1	7.96	56.636	
1,010.0	1,010.0	961.0	1,010.0	3.8	3.8	5.00	449.3	39.3	451.1	443.1	8.00	56.348	
1,100.0	1,100.0	1,049.1	1,098.1	4.0	4.1	5.06	449.4	39.8	451.2	442.8	8.36	53.946	
1,200.0	1,200.0	1,145.2	1,194.1	4.2	4.4	5.46	449.9	43.0	452.0	443.3	8.74	51.703	
1,300.0	1,300.0	1,241.0	1,289.7	4.4	4.7	6.24	451.0	49.3	453.8	444.7	9.11	49.824	
1,400.0	1,400.0	1,336.2	1,384.4	4.6	5.0	7.40	452.6	58.8	456.6	447.2	9.47	48.228	
1,500.0	1,500.0	1,430.7	1,478.1	4.7	5.3	8.90	454.6	71.2	460.7	450.9	9.83	46.878	
1,600.0	1,600.0	1,524.5	1,570.6	5.0	5.6	-44.66	457.2	86.6	465.0	454.7	10.24	45.423	
1,700.0	1,699.8	1,617.9	1,662.1	5.3	6.0	-42.90	460.2	104.8	468.4	457.7	10.65	43.963	
1,800.0	1,799.5	1,710.7	1,752.4	5.5	6.3	-41.11	463.7	125.9	470.9	459.8	11.08	42.491	
1,900.0	1,898.7	1,805.5	1,844.0	5.8	6.6	-39.27	467.7	150.1	472.5	461.1	11.48	41.163	
2,000.0	1,997.5	1,904.5	1,939.4	6.0	7.0	-37.57	472.0	175.9	472.2	460.2	11.97	39.435	
2,100.0	2,095.6	2,003.7	2,035.1	6.2	7.3	-36.14	476.3	201.8	469.5	457.0	12.49	37.598	
2,200.0	2,193.1	2,103.0	2,130.9	6.5	7.7	-34.97	480.6	227.8	464.2	451.2	13.01	35.669	
2,300.0	2,289.6	2,202.4	2,226.7	6.7	8.1	-34.03	484.9	253.7	456.3	442.7	13.55	33.663	
2,341.2	2,329.2	2,243.3	2,266.2	6.7	8.3	-33.71	486.6	264.4	452.2	438.5	13.73	32.926	
2,400.0	2,385.4	2,301.6	2,322.4	6.8	8.5	-33.21	489.2	279.6	446.1	432.1	14.00	31.862	
2,500.0	2,481.2	2,400.9	2,418.1	7.0	8.9	-32.33	493.4	305.6	435.7	421.2	14.52	30.007	
2,600.0	2,576.9	2,500.1	2,513.8	7.1	9.3	-31.41	497.7	331.5	425.5	410.4	15.06	28.251	
2,700.0	2,672.6	2,599.3	2,609.5	7.3	9.8	-30.44	502.0	357.4	415.3	399.7	15.62	26.590	
2,800.0	2,768.3	2,698.6	2,705.2	7.5	10.2	-29.42	506.3	383.3	405.3	389.1	16.20	25.021	
2,900.0	2,864.0	2,797.8	2,800.9	7.6	10.6	-28.35	510.6	409.2	395.5	378.7	16.80	23.540	
3,000.0	2,959.8	2,897.0	2,896.6	7.8	11.1	-27.23	514.9	435.1	385.7	368.3	17.42	22.144	
3,100.0	3,055.5	2,996.3	2,992.3	8.0	11.5	-26.05	519.2	461.0	376.2	358.1	18.06	20.828	
3,200.0	3,151.2	3,095.5	3,088.0	8.2	12.0	-24.81	523.5	487.0	366.8	348.0	18.72	19.590	
3,300.0	3,246.9	3,194.7	3,183.7	8.4	12.4	-23.51	527.8	512.9	357.5	338.1	19.40	18.426	
3,400.0	3,342.6	3,294.0	3,279.4	8.6	12.9	-22.14	532.1	538.8	348.5	328.4	20.11	17.331	
3,500.0	3,438.4	3,393.2	3,375.1	8.8	13.4	-20.69	536.4	564.7	339.7	318.9	20.84	16.303	
3,600.0	3,534.1	3,492.4	3,470.7	9.0	13.8	-19.17	540.7	590.6	331.1	309.5	21.58	15.340	
3,700.0	3,629.8	3,591.7	3,566.4	9.2	14.3	-17.58	545.0	616.5	322.8	300.4	22.36	14.437	
3,800.0	3,725.5	3,690.9	3,662.1	9.4	14.7	-15.90	549.3	642.4	314.7	291.5	23.15	13.593	
3,900.0	3,821.2	3,790.1	3,757.8	9.6	15.2	-14.13	553.6	668.3	306.9	282.9	23.97	12.804	
4,000.0	3,917.0	3,889.4	3,853.5	9.8	15.7	-12.27	557.8	694.3	299.4	274.6	24.80	12.070	
4,100.0	4,012.7	3,988.6	3,949.2	10.0	16.2	-10.33	562.1	720.2	292.2	266.6	25.66	11.387	
4,200.0	4,108.4	4,087.8	4,044.9	10.2	16.6	-8.28	566.4	746.1	285.4	258.9	26.54	10.754	
4,300.0	4,204.1	4,187.1	4,140.6	10.4	17.1	-6.15	570.7	772.0	279.0	251.6	27.43	10.170	
4,400.0	4,299.8	4,286.3	4,236.3	10.6	17.6	-3.91	575.0	797.9	273.0	244.7	28.34	9.632	
4,500.0	4,395.6	4,385.5	4,332.0	10.8	18.1	-1.58	579.3	823.8	267.4	238.2	29.26	9.139	
4,600.0	4,491.3	4,484.7	4,427.7	11.0	18.5	0.84	583.6	849.7	262.3	232.1	30.19	8.690	
4,700.0	4,587.0	4,584.0	4,523.4	11.3	19.0	3.35	587.9	875.7	257.7	226.6	31.11	8.282	
4,800.0	4,682.7	4,683.2	4,619.1	11.5	19.5	5.95	592.2	901.6	253.6	221.6	32.04	7.916	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - _THUNDERDOME FED COM 523H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,900.0	4,778.4	4,782.4	4,714.8	11.7	20.0	8.63	596.5	927.5	250.0	217.1	32.95	7.589	
5,000.0	4,874.2	4,881.7	4,810.5	11.9	20.5	11.38	600.8	953.4	247.1	213.2	33.84	7.301	
5,100.0	4,969.9	4,980.9	4,906.1	12.1	21.0	14.19	605.1	979.3	244.7	210.0	34.71	7.049	
5,200.0	5,065.6	5,080.1	5,001.8	12.4	21.4	17.04	609.4	1,005.2	242.9	207.3	35.55	6.832	
5,300.0	5,161.3	5,179.4	5,097.5	12.6	21.9	19.93	613.7	1,031.1	241.7	205.4	36.36	6.648	
5,400.0	5,257.0	5,278.6	5,193.2	12.8	22.4	22.84	618.0	1,057.1	241.2	204.1	37.12	6.497	
5,435.2	5,290.7	5,313.5	5,226.9	12.9	22.6	23.86	619.5	1,066.2	241.1	203.8	37.38	6.452 CC	
5,500.0	5,352.8	5,377.8	5,288.9	13.0	22.9	25.75	622.2	1,083.0	241.3	203.4	37.84	6.377 ES	
5,600.0	5,448.5	5,477.1	5,384.6	13.3	23.4	28.66	626.5	1,108.9	242.0	203.5	38.50	6.285	
5,700.0	5,544.2	5,576.3	5,480.3	13.5	23.9	31.54	630.8	1,134.8	243.3	204.2	39.12	6.220	
5,800.0	5,639.9	5,675.5	5,576.0	13.7	24.4	34.38	635.1	1,160.7	245.3	205.6	39.69	6.181	
5,900.0	5,735.6	5,774.8	5,671.7	13.9	24.8	37.17	639.4	1,186.6	247.9	207.7	40.21	6.165 SF	
6,000.0	5,831.4	5,874.0	5,767.4	14.2	25.3	39.90	643.7	1,212.5	251.0	210.4	40.68	6.171	
6,100.0	5,927.1	5,973.2	5,863.1	14.4	25.8	42.55	648.0	1,238.4	254.8	213.7	41.11	6.197	
6,200.0	6,022.8	6,072.5	5,958.8	14.6	26.3	45.13	652.3	1,264.4	259.0	217.5	41.50	6.242	
6,300.0	6,118.5	6,171.7	6,054.5	14.9	26.8	47.62	656.6	1,290.3	263.8	221.9	41.85	6.303	
6,400.0	6,214.2	6,270.9	6,150.2	15.1	27.3	50.01	660.9	1,316.2	269.0	226.9	42.18	6.378	
6,500.0	6,310.0	6,370.2	6,245.9	15.3	27.8	52.31	665.2	1,342.1	274.7	232.3	42.48	6.468	
6,533.1	6,341.7	6,403.0	6,277.5	15.4	27.9	53.05	666.6	1,350.7	276.7	234.2	42.57	6.501	
6,600.0	6,405.8	6,469.4	6,341.6	15.5	28.3	54.49	669.5	1,368.0	281.1	238.3	42.75	6.575	
6,700.0	6,502.1	6,568.7	6,437.3	15.8	28.8	56.33	673.8	1,394.0	288.7	245.7	43.09	6.702	
6,800.0	6,598.8	6,668.1	6,533.1	16.0	29.2	57.81	678.1	1,419.9	297.6	254.1	43.47	6.846	
6,900.0	6,696.0	6,767.4	6,628.9	16.2	29.7	58.93	682.4	1,445.8	307.5	263.6	43.91	7.002	
7,000.0	6,793.6	6,866.8	6,724.7	16.4	30.2	59.73	686.7	1,471.8	318.4	273.9	44.42	7.167	
7,100.0	6,891.5	6,966.1	6,820.5	16.6	30.7	60.23	691.0	1,497.7	330.1	285.1	44.98	7.339	
7,200.0	6,989.8	7,065.2	6,916.1	16.8	31.2	60.45	695.3	1,523.6	342.8	297.2	45.61	7.516	
7,300.0	7,088.4	7,164.3	7,011.7	17.0	31.7	60.43	699.5	1,549.5	356.3	310.0	46.29	7.696	
7,400.0	7,187.2	7,263.3	7,107.1	17.2	32.2	60.18	703.8	1,575.3	370.6	323.6	47.02	7.882	
7,500.0	7,286.3	7,362.0	7,202.3	17.4	32.7	59.75	708.1	1,601.1	385.9	338.1	47.80	8.072	
7,600.0	7,385.7	7,460.6	7,297.4	17.6	33.2	59.15	712.4	1,626.8	402.0	353.4	48.63	8.267	
7,700.0	7,485.2	7,558.9	7,392.2	17.8	33.7	58.41	716.6	1,652.5	419.1	369.7	49.49	8.470	
7,800.0	7,584.8	7,657.0	7,486.7	18.0	34.1	57.55	720.9	1,678.1	437.3	386.9	50.38	8.680	
7,900.0	7,684.6	7,754.7	7,581.0	18.1	34.6	56.60	725.1	1,703.7	456.5	405.2	51.29	8.899	
8,000.0	7,784.5	7,852.2	7,675.0	18.3	35.1	55.57	729.3	1,729.1	476.8	424.6	52.23	9.129	
8,100.0	7,884.5	7,949.2	7,768.6	18.4	35.6	54.49	733.5	1,754.5	498.3	445.2	53.18	9.372	
8,200.0	7,984.5	8,045.9	7,861.8	18.5	36.1	53.36	737.7	1,779.7	521.1	466.9	54.13	9.627	
8,215.5	8,000.0	8,060.9	7,876.3	18.5	36.2	108.48	738.3	1,783.6	524.7	470.5	54.27	9.669	
8,300.0	8,084.5	8,144.5	7,957.0	18.6	36.6	107.37	741.9	1,805.4	544.7	489.6	55.06	9.893	
8,400.0	8,184.5	8,250.6	8,059.6	18.7	37.1	106.12	746.3	1,831.7	567.4	511.4	55.99	10.134	
8,500.0	8,284.5	8,357.7	8,163.7	18.7	37.6	105.05	750.4	1,856.4	588.7	531.8	56.87	10.351	
8,600.0	8,384.5	8,465.7	8,269.2	18.8	38.1	104.13	754.2	1,879.3	608.4	550.7	57.69	10.546	
8,700.0	8,484.5	8,574.6	8,376.0	18.8	38.6	103.33	757.7	1,900.4	626.5	568.1	58.45	10.718	
8,800.0	8,584.5	8,684.3	8,483.9	18.9	39.1	102.65	760.9	1,919.7	643.0	583.8	59.17	10.867	
8,900.0	8,684.5	8,794.6	8,592.9	19.0	39.6	102.07	763.7	1,937.0	657.8	598.0	59.84	10.993	
9,000.0	8,784.5	8,905.7	8,702.8	19.0	40.1	101.59	766.3	1,952.3	670.8	610.4	60.45	11.097	
9,100.0	8,884.5	9,017.3	8,813.6	19.1	40.6	101.18	768.5	1,965.6	682.1	621.1	61.02	11.179	
9,200.0	8,984.5	9,129.4	8,925.1	19.1	41.0	100.85	770.3	1,976.8	691.6	630.1	61.53	11.241	
9,300.0	9,084.5	9,241.9	9,037.2	19.2	41.5	100.59	771.8	1,985.8	699.3	637.3	61.98	11.283	
9,400.0	9,184.5	9,354.7	9,149.8	19.3	41.9	100.39	773.0	1,992.7	705.1	642.8	62.37	11.306	
9,500.0	9,284.5	9,467.7	9,262.8	19.3	42.2	100.26	773.8	1,997.4	709.1	646.4	62.69	11.312	
9,600.0	9,384.4	9,580.9	9,375.9	19.4	42.5	100.19	774.2	2,000.0	711.2	648.3	62.92	11.305	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - _THUNDERDOME FED COM 523H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1 **Rule Assigned:** **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,608.0	9,392.5	9,590.0	9,385.0	19.4	42.6	100.19	774.2	2,000.1	711.3	648.4	62.93	11.303	
9,625.0	9,409.5	9,609.2	9,404.2	19.4	42.6	-82.83	774.2	2,000.3	711.4	648.5	62.95	11.302	
9,650.0	9,434.4	9,637.5	9,432.5	19.4	42.6	-82.98	774.2	2,000.4	711.4	648.4	62.96	11.299	
9,675.0	9,459.2	9,664.2	9,459.2	19.4	42.7	-83.26	774.2	2,000.4	711.1	648.1	63.00	11.286	
9,700.0	9,483.9	9,688.9	9,483.9	19.3	42.7	-83.65	774.2	2,000.4	710.6	647.5	63.07	11.266	
9,725.0	9,508.3	9,713.3	9,508.3	19.3	42.7	-84.14	774.2	2,000.4	710.0	646.8	63.17	11.240	
9,750.0	9,532.4	9,737.4	9,532.4	19.3	42.7	-84.74	774.2	2,000.4	709.3	646.0	63.28	11.209	
9,775.0	9,556.1	9,761.1	9,556.1	19.3	42.7	-85.43	774.2	2,000.4	708.6	645.2	63.41	11.175	
9,800.0	9,579.3	9,784.3	9,579.3	19.2	42.7	-86.21	774.2	2,000.4	707.9	644.3	63.55	11.139	
9,825.0	9,602.1	9,807.1	9,602.1	19.2	42.7	-87.05	774.2	2,000.4	707.2	643.5	63.71	11.101	
9,850.0	9,624.2	9,829.2	9,624.2	19.2	42.7	-87.95	774.2	2,000.4	706.6	642.8	63.87	11.064	
9,875.0	9,645.8	9,850.8	9,645.8	19.2	42.7	-88.89	774.2	2,000.4	706.2	642.2	64.04	11.028	
9,900.0	9,666.6	9,871.6	9,666.6	19.1	42.7	-89.84	774.2	2,000.4	706.1	641.8	64.21	10.995	
9,904.1	9,670.0	9,875.0	9,670.0	19.1	42.7	-90.00	774.2	2,000.4	706.1	641.8	64.24	10.991	
9,925.0	9,686.7	9,891.7	9,686.7	19.1	42.7	-90.80	774.2	2,000.4	706.2	641.8	64.39	10.968	
9,950.0	9,706.0	9,911.0	9,706.0	19.1	42.7	-91.74	774.2	2,000.4	706.6	642.1	64.55	10.946	
9,975.0	9,724.4	9,929.4	9,724.4	19.1	42.7	-92.64	774.2	2,000.4	707.5	642.8	64.71	10.933	
10,000.0	9,741.9	9,946.9	9,741.9	19.1	42.7	-93.49	774.2	2,000.4	708.9	644.0	64.86	10.929	
10,025.0	9,758.5	9,963.4	9,758.5	19.0	42.7	-94.26	774.2	2,000.4	710.8	645.8	64.99	10.937	
10,050.0	9,774.0	9,979.0	9,774.0	19.0	42.7	-94.94	774.2	2,000.4	713.3	648.2	65.10	10.957	
10,075.0	9,788.5	9,993.5	9,788.5	19.0	42.7	-95.50	774.2	2,000.4	716.5	651.3	65.19	10.991	
10,100.0	9,801.9	10,006.9	9,801.9	19.0	42.7	-95.94	774.2	2,000.4	720.4	655.1	65.25	11.040	
10,125.0	9,814.2	10,019.2	9,814.2	19.0	42.7	-96.24	774.2	2,000.4	725.0	659.7	65.29	11.105	
10,150.0	9,825.4	10,030.4	9,825.4	19.0	42.7	-96.38	774.2	2,000.4	730.4	665.1	65.29	11.187	
10,175.0	9,835.3	10,040.3	9,835.3	19.0	42.7	-96.35	774.2	2,000.4	736.6	671.3	65.27	11.286	
10,200.0	9,844.0	10,049.0	9,844.0	19.0	42.7	-96.13	774.2	2,000.4	743.6	678.4	65.21	11.403	
10,225.0	9,851.6	10,056.5	9,851.6	19.0	42.7	-95.72	774.2	2,000.4	751.4	686.3	65.13	11.538	
10,250.0	9,857.8	10,062.8	9,857.8	19.0	42.7	-95.11	774.2	2,000.4	760.1	695.1	65.01	11.691	
10,275.0	9,862.8	10,067.8	9,862.8	19.1	42.7	-94.29	774.2	2,000.4	769.5	704.6	64.87	11.861	
10,300.0	9,866.4	10,071.4	9,866.4	19.1	42.7	-93.25	774.2	2,000.4	779.6	714.9	64.71	12.048	
10,325.0	9,868.8	10,073.8	9,868.8	19.1	42.7	-91.99	774.2	2,000.4	790.5	726.0	64.52	12.252	
10,350.0	9,869.9	10,074.9	9,869.9	19.1	42.7	-90.52	774.2	2,000.4	802.1	737.7	64.32	12.470	
10,358.0	9,870.0	10,075.0	9,870.0	19.1	42.7	-90.00	774.2	2,000.4	805.9	741.7	64.25	12.544	
10,400.0	9,870.0	10,075.0	9,870.0	19.2	42.7	-90.00	774.2	2,000.4	827.0	763.1	63.86	12.950	
10,500.0	9,870.0	10,075.0	9,870.0	19.3	42.7	-90.00	774.2	2,000.4	883.1	820.3	62.82	14.059	
10,600.0	9,870.0	10,075.0	9,870.0	19.5	42.7	-90.00	774.2	2,000.4	946.6	884.9	61.71	15.340	
10,633.0	9,870.0	10,075.0	9,870.0	19.5	42.7	-90.00	774.2	2,000.4	968.9	907.6	61.34	15.796	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - FORTY NINER RIDGE 23 FEDERAL 002H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 44-r.5 MWD

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,750.0	9,532.4	12,060.6	9,823.6	19.3	42.7	92.27	879.3	345.3	997.1	933.6	63.49	15.704	
9,775.0	9,556.1	12,052.2	9,823.5	19.3	42.6	92.68	870.9	345.3	990.0	926.4	63.57	15.574	
9,800.0	9,579.3	12,041.9	9,823.5	19.2	42.5	92.91	860.6	345.3	983.5	919.9	63.59	15.467	
9,825.0	9,602.1	12,030.5	9,823.3	19.2	42.3	93.02	849.2	345.3	977.6	914.0	63.56	15.379	
9,850.0	9,624.2	12,017.9	9,823.1	19.2	42.1	93.01	836.6	345.3	972.2	908.7	63.50	15.310	
9,875.0	9,645.8	12,004.3	9,822.9	19.2	41.9	92.90	823.0	345.3	967.3	903.9	63.39	15.260	
9,900.0	9,666.6	11,989.7	9,822.5	19.1	41.6	92.69	808.4	345.3	962.9	899.7	63.23	15.228	
9,925.0	9,686.7	11,974.2	9,822.0	19.1	41.4	92.39	792.8	345.3	959.0	896.0	63.04	15.212 SF	
9,950.0	9,706.0	11,957.7	9,821.4	19.1	41.1	92.03	776.4	345.3	955.6	892.7	62.81	15.212	
9,975.0	9,724.4	11,940.1	9,820.7	19.1	40.9	91.59	758.8	345.4	952.5	890.0	62.55	15.229	
10,000.0	9,741.9	11,921.6	9,819.9	19.1	40.6	91.09	740.4	345.5	949.8	887.6	62.24	15.260	
10,025.0	9,758.5	11,902.3	9,819.0	19.0	40.3	90.56	721.0	345.5	947.5	885.6	61.91	15.305	
10,050.0	9,774.0	11,882.1	9,817.9	19.0	40.0	90.00	700.9	345.7	945.4	883.9	61.54	15.363	
10,075.0	9,788.5	11,861.2	9,816.7	19.0	39.6	89.42	680.0	345.8	943.6	882.5	61.15	15.432	
10,100.0	9,801.9	11,843.2	9,815.7	19.0	39.3	88.97	662.1	346.0	942.0	881.2	60.80	15.493	
10,125.0	9,814.2	11,824.4	9,814.8	19.0	39.1	88.52	643.3	346.1	940.7	880.2	60.43	15.566	
10,150.0	9,825.4	11,804.9	9,814.0	19.0	38.8	88.09	623.8	346.1	939.5	879.5	60.04	15.648	
10,175.0	9,835.3	11,784.6	9,813.4	19.0	38.4	87.68	603.5	346.1	938.5	878.9	59.63	15.739	
10,200.0	9,844.0	11,763.5	9,812.8	19.0	38.1	87.30	582.4	346.0	937.6	878.4	59.20	15.839	
10,225.0	9,851.6	11,739.8	9,812.4	19.0	37.7	86.94	558.8	346.0	936.8	878.0	58.72	15.954	
10,250.0	9,857.8	11,715.8	9,811.8	19.0	37.4	86.65	534.7	345.9	935.9	877.7	58.23	16.072	
10,275.0	9,862.8	11,691.5	9,811.3	19.1	37.0	86.42	510.4	345.8	935.0	877.3	57.74	16.193	
10,300.0	9,866.4	11,667.2	9,810.8	19.1	36.6	86.28	486.1	345.7	934.0	876.8	57.25	16.315	
10,325.0	9,868.8	11,644.1	9,810.3	19.1	36.3	86.23	463.1	345.6	933.0	876.3	56.79	16.430	
10,350.0	9,869.9	11,621.0	9,809.7	19.1	35.9	86.25	439.9	345.4	932.0	875.7	56.33	16.546	
10,358.0	9,870.0	11,613.5	9,809.6	19.1	35.8	86.28	432.5	345.3	931.7	875.5	56.18	16.584	
10,400.0	9,870.0	11,574.4	9,808.7	19.2	35.2	86.22	393.3	344.9	930.0	874.6	55.41	16.785	
10,500.0	9,870.0	11,474.0	9,806.5	19.3	33.7	86.07	293.0	343.8	926.0	872.6	53.49	17.312	
10,600.0	9,870.0	11,370.8	9,804.9	19.5	32.1	85.95	189.8	342.9	921.8	870.2	51.59	17.869	
10,633.0	9,870.0	11,339.6	9,804.2	19.5	31.6	85.90	158.6	342.6	920.4	869.4	51.02	18.040	
10,700.0	9,870.0	11,275.1	9,802.3	19.6	30.7	85.77	94.2	341.9	918.6	868.7	49.87	18.419	
10,747.2	9,870.0	11,226.9	9,800.8	19.7	30.0	85.68	45.9	341.4	918.2	869.2	49.04	18.725	
10,762.7	9,870.0	11,211.0	9,800.4	19.7	29.7	85.66	30.1	341.2	918.2	869.5	48.76	18.830	
10,800.0	9,870.0	11,175.5	9,799.6	19.8	29.2	85.61	-5.5	340.9	918.4	870.3	48.16	19.072	
10,900.0	9,870.0	11,084.3	9,798.8	20.0	27.9	85.56	-96.6	339.2	919.6	873.0	46.65	19.712	
11,000.0	9,870.0	10,988.1	9,800.1	20.2	26.5	85.65	-192.7	336.5	921.6	876.5	45.17	20.405	
11,100.0	9,870.0	10,869.9	9,802.5	20.5	24.8	85.81	-310.9	333.9	923.0	879.5	43.50	21.218	
11,200.0	9,870.0	10,755.5	9,805.0	20.7	23.2	85.96	-425.2	334.1	921.8	879.8	42.01	21.941	
11,300.0	9,870.0	10,645.6	9,806.1	21.0	21.8	86.02	-535.2	335.3	920.0	879.3	40.73	22.587	
11,400.0	9,870.0	10,538.5	9,806.4	21.4	20.4	86.02	-642.3	337.7	917.0	877.4	39.63	23.137	
11,500.0	9,870.0	10,436.0	9,806.1	21.7	19.1	85.99	-744.7	340.7	913.4	874.7	38.74	23.579	
11,600.0	9,870.0	10,346.3	9,806.5	22.1	18.1	86.00	-834.4	342.9	910.3	872.2	38.09	23.896	
11,700.0	9,870.0	10,237.4	9,807.8	22.4	16.9	86.07	-943.3	345.0	907.6	870.1	37.50	24.204	
11,800.0	9,870.0	10,091.8	9,807.4	22.9	15.6	86.00	-1,088.5	354.2	900.1	863.1	36.94	24.364	
11,900.0	9,870.0	9,997.0	9,801.3	23.3	14.9	85.57	-1,182.7	361.9	891.8	855.0	36.81	24.230	
12,000.0	9,870.0	9,942.0	9,791.7	23.7	14.6	84.93	-1,236.7	365.4	886.2	849.5	36.79	24.087	
12,044.0	9,870.0	9,921.9	9,786.7	24.0	14.5	84.60	-1,256.2	366.0	885.6	848.8	36.79	24.072 CC, ES	
12,100.0	9,870.0	9,902.0	9,780.8	24.2	14.4	84.22	-1,275.2	366.2	886.7	849.9	36.77	24.114	
12,200.0	9,870.0	9,850.9	9,761.1	24.7	14.2	82.96	-1,322.3	364.9	893.5	856.8	36.73	24.326	
12,300.0	9,870.0	9,807.0	9,739.4	25.2	14.0	81.60	-1,360.4	362.6	906.7	870.1	36.67	24.729	
12,400.0	9,870.0	9,755.2	9,709.5	25.8	13.9	79.75	-1,402.5	358.9	926.1	889.5	36.62	25.289	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - FORTY NINER RIDGE 23 FEDERAL 002H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 44-r.5 MWD

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
12,500.0	9,870.0	9,712.0	9,680.7	26.3	13.7	78.01	-1,434.5	355.4	952.2	915.6	36.55	26.052	
12,600.0	9,870.0	9,680.0	9,657.1	26.9	13.6	76.60	-1,455.9	352.8	985.0	948.6	36.44	27.034	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - FORTY NINER RIDGE 23 FEDERAL 1H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 99-r.5 MWD

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,300.0	9,084.5	12,288.8	9,872.7	19.2	44.1	87.50	924.4	1,859.3	966.8	914.8	52.02	18.585	
9,400.0	9,184.5	12,288.2	9,872.7	19.3	44.1	87.56	923.9	1,859.3	887.2	833.7	53.49	16.585	
9,500.0	9,284.5	12,287.6	9,872.7	19.3	44.1	87.62	923.2	1,859.3	812.1	756.8	55.24	14.700	
9,600.0	9,384.4	12,286.9	9,872.8	19.4	44.1	87.69	922.5	1,859.4	742.9	685.6	57.29	12.966	
9,608.0	9,392.5	12,286.9	9,872.8	19.4	44.1	87.70	922.5	1,859.4	737.6	680.1	57.47	12.835	
9,625.0	9,409.5	12,286.5	9,872.8	19.4	44.1	-96.97	922.1	1,859.4	726.7	668.8	57.84	12.563	
9,650.0	9,434.4	12,285.1	9,872.8	19.4	44.1	-99.18	920.8	1,859.4	711.1	652.8	58.39	12.180	
9,675.0	9,459.2	12,282.7	9,872.8	19.4	44.0	-101.12	918.3	1,859.5	696.3	637.4	58.92	11.818	
9,700.0	9,483.9	12,279.2	9,872.8	19.3	44.0	-102.77	914.9	1,859.6	682.3	622.8	59.45	11.477	
9,725.0	9,508.3	12,274.7	9,872.9	19.3	43.9	-104.14	910.3	1,859.8	669.1	609.2	59.95	11.161	
9,750.0	9,532.4	12,269.0	9,873.0	19.3	43.8	-105.24	904.7	1,860.0	656.9	596.4	60.42	10.871	
9,775.0	9,556.1	12,260.0	9,873.2	19.3	43.7	-105.88	895.7	1,860.3	645.6	584.7	60.83	10.612	
9,800.0	9,579.3	12,253.0	9,873.3	19.2	43.6	-106.56	888.6	1,860.6	635.3	574.0	61.25	10.372	
9,825.0	9,602.1	12,241.9	9,873.5	19.2	43.4	-106.75	877.5	1,861.0	626.0	564.4	61.57	10.167	
9,850.0	9,624.2	12,229.6	9,873.7	19.2	43.2	-106.72	865.3	1,861.4	617.7	555.9	61.85	9.988	
9,875.0	9,645.8	12,216.3	9,874.0	19.2	43.0	-106.50	852.0	1,861.9	610.5	548.4	62.06	9.837	
9,900.0	9,666.6	12,201.9	9,874.2	19.1	42.8	-106.11	837.6	1,862.4	604.2	542.0	62.22	9.711	
9,925.0	9,686.7	12,187.4	9,874.4	19.1	42.5	-105.62	823.1	1,863.0	599.0	536.6	62.33	9.609	
9,950.0	9,706.0	12,172.5	9,874.6	19.1	42.3	-105.02	808.2	1,863.6	594.7	532.3	62.39	9.531	
9,975.0	9,724.4	12,156.7	9,874.8	19.1	42.0	-104.29	792.4	1,864.2	591.3	528.9	62.39	9.477	
10,000.0	9,741.9	12,140.1	9,874.9	19.1	41.8	-103.46	775.8	1,865.0	588.8	526.5	62.33	9.446	
10,025.0	9,758.5	12,123.9	9,875.0	19.0	41.5	-102.61	759.7	1,865.8	587.2	524.9	62.24	9.435 SF	
10,050.0	9,774.0	12,108.0	9,875.1	19.0	41.3	-101.74	743.8	1,866.6	586.4	524.3	62.10	9.442	
10,063.4	9,781.9	12,099.2	9,875.1	19.0	41.1	-101.24	735.1	1,867.2	586.3	524.3	62.01	9.454 ES	
10,075.0	9,788.5	12,091.5	9,875.1	19.0	41.0	-100.79	727.4	1,867.7	586.3	524.4	61.92	9.469	
10,100.0	9,801.9	12,069.0	9,875.0	19.0	40.6	-99.51	704.9	1,869.2	587.1	525.5	61.62	9.528	
10,125.0	9,814.2	12,056.2	9,874.9	19.0	40.4	-98.73	692.1	1,870.2	588.4	527.0	61.42	9.581	
10,150.0	9,825.4	12,036.8	9,874.7	19.0	40.1	-97.63	672.8	1,871.8	590.3	529.2	61.10	9.662	
10,175.0	9,835.3	12,017.0	9,874.5	19.0	39.8	-96.54	653.1	1,873.5	592.7	531.9	60.75	9.756	
10,200.0	9,844.0	11,992.9	9,874.3	19.0	39.4	-95.36	629.1	1,875.6	595.4	535.1	60.33	9.870	
10,225.0	9,851.6	11,963.5	9,874.1	19.0	39.0	-94.12	599.8	1,878.0	598.3	538.5	59.82	10.001	
10,250.0	9,857.8	11,931.5	9,873.9	19.0	38.4	-92.99	567.9	1,880.3	601.0	541.8	59.26	10.143	
10,275.0	9,862.8	11,893.7	9,874.2	19.1	37.8	-92.00	530.1	1,882.2	603.5	544.9	58.58	10.301	
10,300.0	9,866.4	11,862.0	9,874.9	19.1	37.3	-91.36	498.4	1,883.2	605.5	547.5	57.98	10.442	
10,325.0	9,868.8	11,834.7	9,875.6	19.1	36.9	-90.95	471.1	1,884.0	607.4	550.0	57.45	10.573	
10,350.0	9,869.9	11,807.8	9,876.4	19.1	36.5	-90.69	444.3	1,884.6	609.3	552.4	56.92	10.705	
10,358.0	9,870.0	11,799.6	9,876.7	19.1	36.4	-90.63	436.0	1,884.7	609.9	553.1	56.75	10.747	
10,400.0	9,870.0	11,757.1	9,877.9	19.2	35.7	-90.74	393.6	1,885.6	612.9	557.0	55.89	10.966	
10,500.0	9,870.0	11,653.1	9,879.5	19.3	34.1	-90.89	289.6	1,886.6	619.2	565.3	53.86	11.496	
10,600.0	9,870.0	11,521.9	9,879.8	19.5	32.0	-90.91	158.4	1,885.8	624.0	572.6	51.34	12.153	
10,633.0	9,870.0	11,480.0	9,879.8	19.5	31.4	-90.90	116.6	1,884.0	624.2	573.7	50.54	12.352	
10,700.0	9,870.0	11,406.4	9,879.9	19.6	30.2	-90.92	43.1	1,879.3	622.7	573.5	49.18	12.663	
10,762.7	9,870.0	11,353.8	9,879.9	19.7	29.4	-90.92	-9.4	1,876.5	620.5	572.2	48.29	12.850	
10,800.0	9,870.0	11,322.1	9,879.9	19.8	28.9	-90.92	-41.1	1,875.2	619.2	571.5	47.75	12.966	
10,900.0	9,870.0	11,204.8	9,881.0	20.0	27.2	-91.03	-158.2	1,869.1	614.7	569.1	45.69	13.455	
11,000.0	9,870.0	11,110.7	9,882.7	20.2	25.8	-91.20	-252.1	1,863.3	609.3	565.1	44.22	13.778	
11,100.0	9,870.0	11,017.8	9,884.0	20.5	24.4	-91.33	-344.9	1,858.8	605.2	562.3	42.88	14.113	
11,200.0	9,870.0	10,915.5	9,885.5	20.7	22.9	-91.48	-447.0	1,854.2	601.4	560.0	41.44	14.513	
11,300.0	9,870.0	10,813.4	9,887.1	21.0	21.5	-91.64	-549.1	1,849.0	597.1	556.9	40.12	14.882	
11,400.0	9,870.0	10,714.1	9,888.7	21.4	20.1	-91.81	-648.2	1,843.8	592.6	553.6	39.00	15.195	
11,500.0	9,870.0	10,597.2	9,893.2	21.7	18.5	-92.27	-764.7	1,836.7	587.4	549.8	37.62	15.617	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - FORTY NINER RIDGE 23 FEDERAL 1H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 99-r.5 MWD

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
11,600.0	9,870.0	10,501.1	9,891.3	22.1	17.3	-92.11	-860.5	1,829.3	580.4	543.4	36.91	15.722	
11,700.0	9,870.0	10,430.3	9,889.7	22.4	16.4	-91.96	-931.2	1,825.6	576.0	539.1	36.89	15.613	
11,721.1	9,870.0	10,418.0	9,889.4	22.5	16.3	-91.94	-943.5	1,825.4	575.8	538.9	36.95	15.582 CC	
11,800.0	9,870.0	10,366.7	9,888.0	22.9	15.7	-91.79	-994.8	1,826.3	577.7	540.6	37.11	15.565	
11,900.0	9,870.0	10,310.6	9,886.7	23.3	15.0	-91.65	-1,050.7	1,830.7	586.1	548.6	37.52	15.622	
12,000.0	9,870.0	10,187.5	9,884.8	23.7	13.7	-91.43	-1,173.1	1,842.8	596.7	559.8	36.95	16.149	
12,100.0	9,870.0	10,088.5	9,873.6	24.2	12.8	-90.34	-1,271.1	1,850.7	605.3	568.2	37.14	16.301	
12,200.0	9,870.0	9,997.2	9,850.7	24.7	12.2	-88.19	-1,359.0	1,857.8	614.4	576.6	37.79	16.258	
12,300.0	9,870.0	9,902.6	9,810.6	25.2	11.8	-84.52	-1,444.2	1,865.3	626.7	587.8	38.86	16.127	
12,400.0	9,870.0	9,812.5	9,753.9	25.8	11.5	-79.41	-1,514.0	1,866.2	640.4	599.9	40.44	15.836	
12,500.0	9,870.0	9,759.3	9,714.1	26.3	11.4	-75.88	-1,549.2	1,865.2	662.0	619.9	42.07	15.735	
12,600.0	9,870.0	9,716.8	9,679.6	26.9	11.3	-72.89	-1,573.9	1,863.7	693.1	649.7	43.42	15.963	
12,700.0	9,870.0	9,678.2	9,646.4	27.5	11.3	-70.06	-1,593.5	1,861.5	733.5	689.1	44.42	16.513	
12,800.0	9,870.0	9,651.5	9,622.6	28.1	11.3	-68.06	-1,605.4	1,859.4	782.6	737.7	44.98	17.401	
12,900.0	9,870.0	9,628.0	9,601.1	28.7	11.3	-66.29	-1,614.6	1,857.4	839.8	794.6	45.22	18.571	
13,000.0	9,870.0	9,628.0	9,601.1	29.3	11.3	-66.29	-1,614.6	1,857.4	903.8	858.8	44.99	20.091	
13,100.0	9,870.0	9,606.9	9,581.3	29.9	11.3	-64.70	-1,621.8	1,855.6	973.3	928.4	44.89	21.682	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - ROADRUNNER 23 11 GBI FED CO 014H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 226-r.5 MWD

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
2,200.0	2,193.1	2,154.4	2,169.0	6.5	9.6	-38.15	996.6	374.0	996.0	980.1	15.92	62.577	
2,300.0	2,289.6	2,251.8	2,266.4	6.7	9.8	-39.31	998.8	374.8	977.9	961.6	16.36	59.761	
2,341.2	2,329.2	2,291.9	2,306.5	6.7	9.9	-39.84	999.7	375.2	969.8	953.3	16.51	58.734	
2,400.0	2,385.4	2,349.0	2,363.6	6.8	10.1	-40.48	1,000.9	375.7	957.9	941.2	16.72	57.280	
2,500.0	2,481.2	2,452.2	2,466.8	7.0	10.4	-41.66	1,002.7	376.8	937.6	920.5	17.14	54.688	
2,600.0	2,576.9	2,556.1	2,570.7	7.1	10.6	-42.88	1,003.6	377.9	916.9	899.3	17.55	52.231	
2,700.0	2,672.6	2,662.0	2,676.5	7.3	10.8	-44.15	1,003.3	379.3	895.5	877.7	17.80	50.317	
2,800.0	2,768.3	2,756.5	2,771.0	7.5	11.1	-45.33	1,002.7	380.7	874.1	855.9	18.17	48.113	
2,900.0	2,864.0	2,851.2	2,865.7	7.6	11.4	-46.58	1,002.2	382.0	853.3	834.8	18.54	46.013	
3,000.0	2,959.8	2,947.1	2,961.6	7.8	11.6	-47.92	1,001.8	383.0	833.0	814.1	18.91	44.041	
3,100.0	3,055.5	3,041.9	3,056.4	8.0	11.9	-49.33	1,001.5	383.7	813.2	793.9	19.28	42.172	
3,200.0	3,151.2	3,133.9	3,148.4	8.2	12.2	-50.71	1,001.5	385.2	794.2	774.6	19.65	40.421	
3,300.0	3,246.9	3,226.6	3,241.0	8.4	12.4	-52.05	1,001.7	388.2	776.3	756.2	20.02	38.771	
3,400.0	3,342.6	3,320.0	3,334.4	8.6	12.7	-53.34	1,002.3	392.8	759.2	738.8	20.40	37.220	
3,500.0	3,438.4	3,415.5	3,429.6	8.8	13.1	-54.59	1,003.2	399.2	742.9	722.1	20.78	35.752	
3,600.0	3,534.1	3,520.0	3,533.8	9.0	13.4	-55.95	1,003.7	406.9	726.5	705.4	21.18	34.302	
3,700.0	3,629.8	3,622.5	3,636.0	9.2	13.8	-57.36	1,003.2	414.5	709.6	688.1	21.58	32.890	
3,800.0	3,725.5	3,721.1	3,734.4	9.4	14.1	-58.78	1,002.3	421.7	692.7	670.8	21.96	31.542	
3,900.0	3,821.2	3,819.5	3,832.5	9.6	14.4	-60.28	1,001.2	428.9	676.1	653.7	22.36	30.241	
4,000.0	3,917.0	3,917.6	3,930.3	9.8	14.8	-61.84	1,000.0	436.1	659.7	637.0	22.76	28.986	
4,100.0	4,012.7	4,015.4	4,027.8	10.0	15.1	-63.45	998.6	443.5	643.7	620.5	23.17	27.785	
4,200.0	4,108.4	4,112.9	4,125.0	10.2	15.4	-65.09	997.2	451.4	628.1	604.6	23.58	26.638	
4,300.0	4,204.1	4,212.7	4,224.4	10.4	15.7	-66.78	995.7	460.2	612.9	589.0	23.94	25.604	
4,400.0	4,299.8	4,311.3	4,322.5	10.6	16.0	-68.48	993.9	469.6	597.7	573.4	24.33	24.566	
4,500.0	4,395.6	4,407.7	4,418.4	10.8	16.4	-70.23	992.1	478.8	583.2	558.4	24.79	23.519	
4,600.0	4,491.3	4,498.8	4,509.1	11.0	16.7	-71.96	990.8	487.3	569.6	544.3	25.26	22.547	
4,700.0	4,587.0	4,586.7	4,596.7	11.3	17.0	-73.69	990.9	495.2	558.2	532.4	25.73	21.691	
4,800.0	4,682.7	4,678.6	4,688.3	11.5	17.4	-75.55	992.4	503.1	548.9	522.7	26.21	20.944	
4,900.0	4,778.4	4,775.6	4,784.9	11.7	17.7	-77.56	994.4	511.4	540.8	514.1	26.69	20.258	
5,000.0	4,874.2	4,876.9	4,885.8	11.9	18.1	-79.72	996.4	520.2	533.3	506.1	27.21	19.600	
5,100.0	4,969.9	4,982.9	4,991.3	12.1	18.5	-82.08	997.1	529.5	525.2	497.5	27.76	18.923	
5,200.0	5,065.6	5,083.2	5,091.2	12.4	18.8	-84.43	996.4	538.6	516.8	488.4	28.34	18.236	
5,300.0	5,161.3	5,181.1	5,188.7	12.6	19.2	-86.81	995.6	547.5	509.1	480.1	28.96	17.581	
5,400.0	5,257.0	5,274.0	5,281.3	12.8	19.5	-89.13	995.0	555.7	502.6	473.0	29.58	16.990	
5,500.0	5,352.8	5,365.5	5,372.5	13.0	19.9	-91.44	995.4	563.4	498.1	467.9	30.22	16.485	
5,600.0	5,448.5	5,460.5	5,467.1	13.3	20.2	-93.85	996.5	570.9	495.6	464.7	30.86	16.057	
5,700.0	5,544.2	5,556.6	5,562.9	13.5	20.6	-96.35	997.8	578.2	494.3	462.8	31.53	15.677	
5,749.3	5,591.4	5,604.0	5,610.3	13.6	20.7	-97.59	998.4	581.6	494.2	462.3	31.87	15.507 CC	
5,800.0	5,639.9	5,653.1	5,659.2	13.7	20.9	-98.88	999.1	585.1	494.3	462.1	32.22	15.343 ES	
5,900.0	5,735.6	5,749.7	5,755.6	13.9	21.2	-101.42	1,000.5	592.0	495.5	462.6	32.92	15.051	
6,000.0	5,831.4	5,847.2	5,852.8	14.2	21.6	-103.96	1,002.0	598.8	497.8	464.2	33.63	14.803	
6,100.0	5,927.1	5,944.9	5,950.2	14.4	21.9	-106.45	1,003.6	605.9	501.1	466.7	34.36	14.585	
6,200.0	6,022.8	6,042.2	6,047.2	14.6	22.3	-108.90	1,005.1	612.9	505.3	470.2	35.10	14.396	
6,300.0	6,118.5	6,139.2	6,144.0	14.9	22.6	-111.33	1,006.6	619.7	510.6	474.7	35.83	14.251	
6,400.0	6,214.2	6,239.0	6,243.6	15.1	23.0	-113.83	1,007.4	626.6	516.6	480.0	36.60	14.113	
6,500.0	6,310.0	6,335.0	6,339.3	15.3	23.3	-116.28	1,007.3	633.1	523.1	485.8	37.38	13.996	
6,533.1	6,341.7	6,369.2	6,373.5	15.4	23.4	-117.16	1,007.0	635.4	525.5	487.9	37.64	13.961	
6,600.0	6,405.8	6,431.5	6,435.7	15.5	23.7	-118.76	1,006.6	639.3	530.7	492.5	38.14	13.913	
6,700.0	6,502.1	6,525.0	6,529.0	15.8	24.0	-121.01	1,006.0	644.5	539.1	500.2	38.88	13.865	
6,800.0	6,598.8	6,622.7	6,626.5	16.0	24.3	-123.15	1,005.4	649.6	547.7	508.1	39.61	13.827	
6,900.0	6,696.0	6,720.7	6,724.4	16.2	24.7	-125.11	1,004.6	654.6	556.1	515.8	40.30	13.797	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - ROADRUNNER 23 11 GBI FED CO 014H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 226-r.5 MWD

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
7,000.0	6,793.6	6,818.0	6,821.6	16.4	24.9	-126.87	1,003.7	659.5	564.1	523.1	40.92	13.784	
7,100.0	6,891.5	6,915.4	6,918.5	16.6	25.6	-127.70	1,010.1	666.4	571.6	529.7	41.90	13.642 SF	
7,200.0	6,989.8	7,035.0	7,032.5	16.8	25.8	-126.04	1,040.5	683.5	577.1	535.0	42.08	13.715	
7,300.0	7,088.4	7,095.0	7,085.1	17.0	26.0	-124.00	1,066.4	696.0	582.4	540.4	42.05	13.850	
7,400.0	7,187.2	7,142.0	7,123.9	17.2	26.1	-122.02	1,091.6	704.2	595.7	554.0	41.70	14.286	
7,500.0	7,286.3	7,191.0	7,162.1	17.4	26.2	-119.76	1,121.7	710.3	618.3	577.3	41.03	15.069	
7,600.0	7,385.7	7,219.5	7,183.2	17.6	26.2	-118.54	1,140.7	712.4	649.9	609.9	39.99	16.254	
7,700.0	7,485.2	7,256.3	7,209.1	17.8	26.3	-116.93	1,166.8	713.7	690.1	651.3	38.84	17.770	
7,800.0	7,584.8	7,298.7	7,237.0	18.0	26.4	-115.01	1,198.7	714.9	737.2	699.5	37.69	19.558	
7,900.0	7,684.6	7,343.6	7,264.8	18.1	26.4	-113.01	1,233.9	716.2	789.7	753.1	36.61	21.570	
8,000.0	7,784.5	7,378.0	7,285.1	18.3	26.5	-111.70	1,261.7	717.2	847.2	811.6	35.53	23.843	
8,100.0	7,884.5	7,413.0	7,304.6	18.4	26.6	-110.44	1,290.7	718.2	909.3	874.7	34.59	26.285	
8,200.0	7,984.5	7,440.3	7,319.0	18.5	26.7	-109.71	1,313.9	718.9	975.6	941.9	33.73	28.927	
8,215.5	8,000.0	7,444.2	7,321.0	18.5	26.7	-54.32	1,317.2	719.0	986.3	952.7	33.60	29.353	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - ROADRUNNER 23-11 HAI FED COM 013H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 124-r.5 MWD

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
6,300.0	6,118.5	6,115.8	6,107.4	14.9	22.8	11.58	1,113.7	1,941.3	980.2	947.7	32.46	30.198	
6,400.0	6,214.2	6,210.5	6,202.0	15.1	23.0	12.04	1,112.5	1,943.0	952.9	920.0	32.92	28.948	
6,500.0	6,310.0	6,306.9	6,298.5	15.3	23.2	12.43	1,112.8	1,944.3	925.9	892.5	33.39	27.725	
6,533.1	6,341.7	6,339.6	6,331.1	15.4	23.3	12.55	1,113.0	1,944.6	916.9	883.3	33.54	27.332	
6,600.0	6,405.8	6,405.2	6,396.7	15.5	23.4	12.77	1,113.4	1,945.2	899.0	865.1	33.85	26.558	
6,700.0	6,502.1	6,502.8	6,494.4	15.8	23.5	13.09	1,113.9	1,946.0	873.5	839.2	34.32	25.454	
6,800.0	6,598.8	6,601.5	6,593.1	16.0	23.6	13.42	1,114.4	1,946.7	849.7	814.9	34.78	24.432	
6,900.0	6,696.0	6,700.2	6,691.8	16.2	23.7	13.74	1,114.7	1,947.2	827.2	792.0	35.22	23.486	
7,000.0	6,793.6	6,798.6	6,790.2	16.4	23.8	14.05	1,115.1	1,947.5	806.4	770.8	35.64	22.627	
7,100.0	6,891.5	6,869.4	6,860.9	16.6	23.8	14.13	1,117.1	1,948.0	788.5	752.4	36.13	21.822	
7,200.0	6,989.8	6,932.1	6,923.2	16.8	23.8	13.84	1,124.4	1,949.3	776.7	740.1	36.54	21.254	
7,300.0	7,088.4	6,999.5	6,989.0	17.0	23.8	13.12	1,138.3	1,951.7	771.2	734.4	36.79	20.962	
7,341.2	7,129.0	7,026.3	7,014.7	17.1	23.7	12.70	1,145.7	1,952.6	770.6	733.7	36.89	20.892	CC, ES
7,400.0	7,187.2	7,062.3	7,048.8	17.2	23.7	12.02	1,157.4	1,953.9	771.8	734.8	37.01	20.853	SF
7,500.0	7,286.3	7,122.1	7,103.6	17.4	23.7	10.60	1,181.2	1,956.4	779.6	742.4	37.16	20.981	
7,600.0	7,385.7	7,197.0	7,168.7	17.6	23.6	8.36	1,217.9	1,959.4	794.9	757.6	37.21	21.359	
7,700.0	7,485.2	7,232.2	7,197.8	17.8	23.6	7.17	1,237.8	1,960.7	817.2	780.1	37.19	21.978	
7,800.0	7,584.8	7,292.0	7,244.1	18.0	23.6	4.92	1,275.5	1,962.8	848.2	811.0	37.22	22.792	
7,900.0	7,684.6	7,292.0	7,244.1	18.1	23.6	4.96	1,275.5	1,962.8	887.5	850.6	36.91	24.047	
8,000.0	7,784.5	7,347.7	7,283.6	18.3	23.6	2.68	1,314.6	1,965.1	933.6	896.6	36.92	25.289	
8,100.0	7,884.5	7,386.0	7,308.5	18.4	23.6	1.05	1,343.7	1,967.0	987.6	950.8	36.85	26.802	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - ROADRUNNER FEDERAL 23 11 HAL 003H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 124-r.5 MWD

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
5,400.0	5,257.0	5,306.9	5,307.2	12.8	10.6	-21.77	1,390.7	1,394.5	995.0	972.0	22.98	43.290	
5,500.0	5,352.8	5,404.9	5,403.9	13.0	10.9	-23.33	1,394.6	1,379.4	962.9	939.6	23.34	41.257	
5,600.0	5,448.5	5,498.1	5,496.0	13.3	11.2	-24.90	1,398.0	1,365.1	931.3	907.6	23.70	39.291	
5,700.0	5,544.2	5,589.5	5,586.3	13.5	11.4	-26.52	1,401.0	1,351.4	900.3	876.2	24.07	37.397	
5,800.0	5,639.9	5,676.9	5,672.8	13.7	11.7	-28.10	1,403.6	1,339.3	870.2	845.8	24.46	35.585	
5,900.0	5,735.6	5,767.7	5,762.9	13.9	11.9	-29.71	1,405.8	1,328.5	841.3	816.5	24.83	33.887	
6,000.0	5,831.4	5,848.4	5,843.1	14.2	12.2	-31.18	1,407.8	1,319.7	813.6	788.4	25.22	32.260	
6,100.0	5,927.1	5,932.9	5,927.3	14.4	12.4	-32.71	1,410.7	1,312.5	788.2	762.6	25.61	30.779	
6,200.0	6,022.8	6,027.0	6,021.0	14.6	12.7	-34.44	1,413.9	1,305.3	764.0	738.0	25.98	29.403	
6,300.0	6,118.5	6,124.2	6,118.1	14.9	13.0	-36.09	1,415.8	1,300.8	740.1	713.8	26.34	28.099	
6,400.0	6,214.2	6,219.7	6,213.5	15.1	13.3	-37.75	1,417.1	1,297.1	716.7	690.0	26.70	26.843	
6,500.0	6,310.0	6,314.9	6,308.6	15.3	13.5	-39.49	1,418.4	1,293.5	693.9	666.8	27.06	25.638	
6,533.1	6,341.7	6,346.7	6,340.4	15.4	13.6	-40.10	1,418.9	1,292.4	686.4	659.3	27.17	25.260	
6,600.0	6,405.8	6,411.2	6,404.9	15.5	13.8	-41.24	1,419.6	1,290.0	671.9	644.5	27.41	24.517	
6,700.0	6,502.1	6,500.5	6,494.0	15.8	14.0	-42.83	1,420.8	1,286.8	651.9	624.1	27.80	23.450	
6,800.0	6,598.8	6,588.1	6,581.6	16.0	14.3	-44.52	1,423.8	1,282.5	635.5	607.3	28.22	22.521	
6,900.0	6,696.0	6,685.2	6,678.4	16.2	14.6	-46.46	1,427.5	1,277.2	621.6	592.9	28.63	21.708	
7,000.0	6,793.6	6,783.8	6,776.8	16.4	14.9	-48.41	1,431.1	1,271.7	609.4	580.3	29.04	20.980	
7,100.0	6,891.5	6,883.0	6,875.8	16.6	15.2	-50.34	1,434.4	1,266.0	598.7	569.3	29.45	20.329	
7,200.0	6,989.8	6,969.6	6,962.2	16.8	15.5	-51.96	1,437.4	1,261.3	590.2	560.2	29.94	19.711	
7,300.0	7,088.4	7,044.8	7,037.1	17.0	15.8	-53.30	1,442.6	1,257.4	586.7	556.2	30.48	19.246	
7,320.3	7,108.4	7,062.0	7,054.2	17.1	15.9	-53.60	1,444.2	1,256.6	586.6	556.0	30.59	19.176 CC, ES	
7,400.0	7,187.2	7,109.0	7,100.7	17.2	16.1	-54.26	1,451.0	1,255.8	590.4	559.4	30.96	19.068 SF	
7,500.0	7,286.3	7,140.6	7,131.4	17.4	16.1	-54.62	1,458.1	1,256.6	603.7	572.5	31.25	19.322	
7,600.0	7,385.7	7,155.0	7,145.3	17.6	16.2	-54.91	1,462.0	1,257.3	628.7	597.5	31.23	20.134	
7,700.0	7,485.2	7,221.5	7,207.3	17.8	16.5	-55.36	1,485.6	1,260.9	660.4	628.1	32.31	20.439	
7,800.0	7,584.8	7,250.0	7,232.7	18.0	16.7	-55.75	1,498.4	1,262.5	702.2	669.5	32.63	21.522	
7,900.0	7,684.6	7,304.7	7,279.7	18.1	17.0	-56.24	1,526.3	1,264.5	750.4	717.4	32.99	22.747	
8,000.0	7,784.5	7,344.0	7,312.2	18.3	17.2	-56.84	1,548.3	1,264.5	804.6	771.5	33.15	24.270	
8,100.0	7,884.5	7,390.3	7,349.2	18.4	17.4	-57.51	1,576.2	1,263.9	863.6	830.3	33.34	25.905	
8,200.0	7,984.5	7,438.0	7,385.9	18.5	17.6	-58.15	1,606.6	1,263.5	926.8	893.2	33.56	27.614	
8,215.5	8,000.0	7,438.0	7,385.9	18.5	17.6	-2.96	1,606.6	1,263.5	936.9	903.4	33.50	27.963	
8,300.0	8,084.5	7,438.0	7,385.9	18.6	17.6	-2.96	1,606.6	1,263.5	994.3	961.1	33.21	29.938	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - ROADRUNNER FEDERAL COM 23 11 GBL 004H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
2,000.0	1,997.5	1,984.1	2,001.0	6.0	9.8	-42.73	991.4	259.6	992.2	976.5	15.71	63.177	
2,100.0	2,095.6	2,079.2	2,096.1	6.2	10.1	-43.78	991.7	257.4	978.0	961.9	16.14	60.610	
2,200.0	2,193.1	2,173.7	2,190.6	6.5	10.4	-45.06	992.3	254.8	961.8	945.3	16.54	58.145	
2,300.0	2,289.6	2,267.4	2,284.2	6.7	10.7	-46.58	993.3	251.8	943.9	927.0	16.94	55.717	
2,341.2	2,329.2	2,308.1	2,324.8	6.7	10.8	-47.31	993.8	250.3	936.0	918.9	17.08	54.815	
2,400.0	2,385.4	2,365.8	2,382.5	6.8	11.0	-48.24	994.4	247.9	924.5	907.3	17.27	53.526	
2,500.0	2,481.2	2,463.8	2,480.4	7.0	11.4	-49.91	995.2	243.0	905.3	887.7	17.65	51.295	
2,600.0	2,576.9	2,564.2	2,580.7	7.1	11.7	-51.75	995.6	237.1	886.4	868.3	18.04	49.142	
2,700.0	2,672.6	2,663.2	2,679.4	7.3	12.1	-53.69	995.4	230.4	867.7	849.3	18.42	47.102	
2,800.0	2,768.3	2,758.5	2,774.5	7.5	12.4	-55.65	995.0	223.8	849.7	830.9	18.79	45.217	
2,900.0	2,864.0	2,852.6	2,868.4	7.6	12.8	-57.65	994.3	217.5	832.6	813.5	19.16	43.449	
3,000.0	2,959.8	2,941.0	2,956.6	7.8	13.1	-59.57	994.0	211.8	817.0	797.5	19.52	41.852	
3,100.0	3,055.5	3,030.3	3,045.7	8.0	13.4	-61.55	994.4	206.2	803.1	783.3	19.89	40.380	
3,200.0	3,151.2	3,128.2	3,143.5	8.2	13.7	-63.75	994.8	200.7	790.5	770.2	20.29	38.965	
3,300.0	3,246.9	3,226.4	3,241.5	8.4	14.1	-65.98	994.9	196.0	778.6	757.9	20.70	37.619	
3,400.0	3,342.6	3,324.1	3,339.1	8.6	14.4	-68.25	994.6	191.4	767.6	746.4	21.11	36.360	
3,500.0	3,438.4	3,421.2	3,436.1	8.8	14.7	-70.60	993.8	186.4	757.4	735.8	21.53	35.171	
3,600.0	3,534.1	3,518.0	3,532.7	9.0	15.1	-73.00	992.7	181.5	748.2	726.3	21.96	34.067	
3,700.0	3,629.8	3,613.2	3,627.9	9.2	15.4	-75.41	991.2	176.7	740.2	717.8	22.40	33.038	
3,800.0	3,725.5	3,704.1	3,718.6	9.4	15.7	-77.74	990.2	172.3	733.8	711.0	22.85	32.113	
3,900.0	3,821.2	3,795.7	3,810.1	9.6	16.0	-80.08	989.6	168.2	729.3	706.0	23.32	31.277	
4,000.0	3,917.0	3,889.1	3,903.4	9.8	16.3	-82.48	989.3	163.9	726.5	702.7	23.82	30.498	
4,100.0	4,012.7	3,982.5	3,996.7	10.0	16.6	-84.90	989.1	159.6	725.3	701.0	24.35	29.792	
4,122.9	4,034.6	4,003.8	4,018.0	10.0	16.7	-85.45	989.1	158.6	725.3	700.8	24.47	29.642 CC, ES	
4,200.0	4,108.4	4,075.5	4,089.6	10.2	16.9	-87.31	989.0	155.1	725.8	700.9	24.88	29.166	
4,300.0	4,204.1	4,169.0	4,183.0	10.4	17.3	-89.74	989.1	150.4	727.9	702.4	25.45	28.601	
4,400.0	4,299.8	4,265.8	4,279.7	10.6	17.6	-92.21	989.1	145.8	731.4	705.3	26.06	28.060	
4,500.0	4,395.6	4,362.6	4,376.4	10.8	17.9	-94.65	989.1	141.7	736.0	709.3	26.69	27.571	
4,600.0	4,491.3	4,458.5	4,472.2	11.0	18.3	-97.01	988.9	137.8	741.7	714.4	27.31	27.156	
4,700.0	4,587.0	4,553.8	4,567.4	11.3	18.6	-99.34	988.7	133.9	748.7	720.8	27.95	26.792	
4,800.0	4,682.7	4,646.1	4,659.7	11.5	18.9	-101.54	988.5	130.2	757.1	728.5	28.58	26.493	
4,900.0	4,778.4	4,738.9	4,752.3	11.7	19.2	-103.70	988.6	126.2	767.1	737.9	29.22	26.251	
5,000.0	4,874.2	4,834.7	4,848.1	11.9	19.5	-105.87	988.9	122.3	778.3	748.4	29.88	26.043	
5,100.0	4,969.9	4,930.3	4,943.6	12.1	19.8	-107.96	989.2	118.5	790.5	759.9	30.55	25.875	
5,200.0	5,065.6	5,023.6	5,036.8	12.4	20.1	-109.94	989.6	114.9	803.8	772.6	31.21	25.752	
5,300.0	5,161.3	5,117.1	5,130.3	12.6	20.4	-111.85	990.2	111.1	818.4	786.5	31.88	25.673	
5,400.0	5,257.0	5,212.6	5,225.7	12.8	20.7	-113.75	990.8	107.3	833.9	801.4	32.55	25.620	
5,500.0	5,352.8	5,308.0	5,321.0	13.0	21.1	-115.57	991.3	103.5	850.3	817.0	33.22	25.598 SF	
5,600.0	5,448.5	5,403.0	5,416.0	13.3	21.4	-117.33	991.7	99.7	867.4	833.6	33.88	25.606	
5,700.0	5,544.2	5,498.4	5,511.2	13.5	21.7	-119.03	992.1	95.9	885.4	850.9	34.53	25.640	
5,800.0	5,639.9	5,596.3	5,609.1	13.7	22.0	-120.71	992.3	92.2	903.9	868.8	35.18	25.692	
5,900.0	5,735.6	5,693.7	5,706.4	13.9	22.3	-122.32	992.4	88.8	922.9	887.0	35.83	25.759	
6,000.0	5,831.4	5,788.3	5,801.0	14.2	22.6	-123.82	992.6	85.6	942.4	905.9	36.45	25.858	
6,100.0	5,927.1	5,882.8	5,895.4	14.4	22.9	-125.25	992.8	82.4	962.6	925.5	37.06	25.976	
6,200.0	6,022.8	5,976.7	5,989.2	14.6	23.2	-126.63	992.9	79.2	983.4	945.8	37.66	26.112	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - ROADRUNNER FEDERAL COM 23 ILL 005H - ST01 - AWP

Offset Site Error: 0.0 usft

Survey Program: 142-r.5 MWD, 7021-r.5 MWD **Rule Assigned:** **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
7,100.0	6,891.5	8,213.5	7,635.7	16.6	27.3	138.08	276.4	1,171.6	933.4	898.0	35.43	26.345	
7,200.0	6,989.8	8,198.0	7,636.3	16.8	27.0	136.12	276.0	1,187.1	864.7	827.9	36.83	23.478	
7,300.0	7,088.4	8,183.8	7,636.8	17.0	26.8	134.31	275.6	1,201.3	801.3	762.9	38.35	20.892	
7,400.0	7,187.2	8,171.0	7,637.3	17.2	26.6	132.67	275.2	1,214.1	744.5	704.6	39.94	18.640	
7,500.0	7,286.3	8,157.9	7,637.7	17.4	26.4	131.08	274.6	1,227.2	696.2	654.8	41.46	16.792	
7,600.0	7,385.7	8,141.5	7,638.1	17.6	26.1	129.28	274.0	1,243.5	658.3	615.6	42.69	15.419	
7,700.0	7,485.2	8,130.9	7,638.2	17.8	25.9	128.10	273.5	1,254.1	632.7	589.1	43.62	14.506	
7,800.0	7,584.8	8,124.1	7,638.2	18.0	25.8	127.38	273.2	1,260.9	621.1	577.1	44.01	14.114	
7,828.0	7,612.8	8,122.8	7,638.2	18.0	25.8	127.25	273.1	1,262.3	620.5	576.5	44.00	14.102	CC, ES, SF
7,900.0	7,684.6	8,120.0	7,638.2	18.1	25.8	127.03	273.0	1,265.0	624.4	580.6	43.75	14.272	
8,000.0	7,784.5	8,117.8	7,638.1	18.3	25.7	126.97	272.9	1,267.2	642.4	599.5	42.89	14.977	
8,100.0	7,884.5	8,117.0	7,638.1	18.4	25.7	127.16	272.9	1,268.0	673.9	632.3	41.60	16.197	
8,200.0	7,984.5	8,117.3	7,638.1	18.5	25.7	127.58	272.9	1,267.7	717.1	677.0	40.12	17.876	
8,215.5	8,000.0	8,117.5	7,638.1	18.5	25.7	-177.04	272.9	1,267.6	724.7	684.9	39.88	18.175	
8,300.0	8,084.5	8,118.2	7,638.1	18.6	25.7	-176.97	272.9	1,266.8	770.4	731.8	38.61	19.952	
8,400.0	8,184.5	8,118.9	7,638.1	18.7	25.8	-176.91	273.0	1,266.1	832.3	795.1	37.25	22.347	
8,500.0	8,284.5	8,119.6	7,638.1	18.7	25.8	-176.85	273.0	1,265.5	901.1	865.1	36.08	24.978	
8,600.0	8,384.5	8,120.1	7,638.2	18.8	25.8	-176.79	273.0	1,264.9	975.4	940.2	35.12	27.770	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - THUNDERDOME FED COM 706H - PILOT HOLE - AWP — **Offset Site Error:** 0.0 usft

Survey Program: 100-r.5 SDI_KPR_WL_NS-CT, 206-r.5 MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	4.0	0.0	3.0	-15.04	299.3	-80.4	310.0				
100.0	100.0	97.5	101.5	0.8	3.0	-15.13	299.0	-80.8	309.7	304.9	4.83	64.160	
200.0	200.0	199.1	203.0	1.4	3.1	-15.41	297.8	-82.1	309.0	303.8	5.18	59.675	
300.0	300.0	302.1	306.1	1.9	3.1	-15.76	295.9	-83.5	307.5	302.0	5.54	55.497	
400.0	400.0	400.3	404.2	2.2	3.2	-15.89	293.6	-83.6	305.3	299.4	5.89	51.860	
449.9	449.9	446.0	449.9	2.4	3.2	-15.77	293.5	-82.9	305.0	299.0	6.05	50.447	
500.0	500.0	492.1	496.0	2.6	3.2	-15.57	294.1	-82.0	305.3	299.1	6.21	49.207	
600.0	600.0	590.3	594.2	2.8	3.3	-15.09	296.3	-79.9	307.0	300.5	6.51	47.181	
700.0	700.0	691.6	695.4	3.1	3.3	-14.65	298.6	-78.1	308.7	301.9	6.80	45.391	
800.0	800.0	793.0	796.7	3.3	3.4	-14.21	300.5	-76.1	310.0	302.9	7.09	43.731	
900.0	900.0	896.5	900.3	3.6	3.4	-13.97	301.3	-74.9	310.4	303.1	7.37	42.127	
1,000.0	1,000.0	997.3	1,001.0	3.8	3.5	-14.02	301.0	-75.1	310.2	302.6	7.63	40.651	
1,100.0	1,100.0	1,097.6	1,101.4	4.0	3.5	-14.13	300.4	-75.6	309.8	301.9	7.89	39.286	
1,200.0	1,200.0	1,198.2	1,202.0	4.2	3.6	-14.25	299.8	-76.1	309.3	301.2	8.14	38.014	
1,300.0	1,300.0	1,299.4	1,303.1	4.4	3.6	-14.39	298.8	-76.7	308.5	300.1	8.39	36.791	
1,400.0	1,400.0	1,400.5	1,404.2	4.6	3.7	-14.52	297.4	-77.1	307.3	298.7	8.63	35.601	
1,500.0	1,500.0	1,500.8	1,504.6	4.7	3.7	-14.68	295.8	-77.5	305.8	297.0	8.88	34.458	
1,600.0	1,600.0	1,601.1	1,604.8	5.0	3.8	-70.54	294.0	-78.2	303.7	294.6	9.12	33.284	
1,700.0	1,699.8	1,697.8	1,701.5	5.3	3.8	-71.74	292.3	-79.0	300.5	291.2	9.36	32.100	
1,800.0	1,799.5	1,797.1	1,800.8	5.5	3.9	-73.71	291.3	-80.5	297.4	287.8	9.59	31.027	
1,900.0	1,898.7	1,892.4	1,896.0	5.8	4.0	-76.40	290.5	-82.7	294.3	284.5	9.79	30.045	
2,000.0	1,997.5	1,989.9	1,993.5	6.0	4.0	-79.50	291.4	-83.8	292.2	282.2	9.98	29.269	
2,100.0	2,095.6	2,086.7	2,090.3	6.2	4.0	-83.24	292.4	-85.1	290.9	280.7	10.17	28.600	
2,146.7	2,141.3	2,132.3	2,135.9	6.3	4.0	-85.23	293.0	-85.8	290.8	280.5	10.26	28.333 CC, ES	
2,200.0	2,193.1	2,184.2	2,187.8	6.5	4.1	-87.66	293.7	-86.5	291.0	280.6	10.37	28.067	
2,300.0	2,289.6	2,287.3	2,290.9	6.7	4.1	-92.83	294.8	-86.9	292.2	281.6	10.58	27.626	
2,341.2	2,329.2	2,327.4	2,331.0	6.7	4.1	-94.98	294.8	-86.6	292.8	282.2	10.63	27.543	
2,400.0	2,385.4	2,384.6	2,388.2	6.8	4.1	-98.10	294.8	-85.9	294.4	283.6	10.73	27.438	
2,500.0	2,481.2	2,481.7	2,485.3	7.0	4.2	-103.37	294.2	-84.8	298.7	287.7	10.98	27.203	
2,600.0	2,576.9	2,576.5	2,580.1	7.1	4.2	-108.45	293.2	-84.1	305.7	294.5	11.25	27.174 SF	
2,700.0	2,672.6	2,672.4	2,675.9	7.3	4.2	-113.39	292.1	-83.7	315.4	303.8	11.54	27.339	
2,800.0	2,768.3	2,767.5	2,771.0	7.5	4.3	-118.05	290.6	-83.4	327.4	315.6	11.83	27.680	
2,900.0	2,864.0	2,862.3	2,865.8	7.6	4.4	-122.42	288.8	-83.5	341.8	329.7	12.13	28.185	
3,000.0	2,959.8	2,956.7	2,960.2	7.8	4.4	-126.53	286.6	-84.0	358.3	345.9	12.43	28.833	
3,100.0	3,055.5	3,052.2	3,055.7	8.0	4.5	-130.41	283.8	-84.8	376.8	364.1	12.73	29.599	
3,200.0	3,151.2	3,150.0	3,153.4	8.2	4.6	-134.13	280.1	-85.1	396.3	383.3	13.04	30.391	
3,300.0	3,246.9	3,241.6	3,244.9	8.4	4.7	-137.35	276.1	-85.6	417.4	404.0	13.34	31.286	
3,400.0	3,342.6	3,333.8	3,337.1	8.6	4.7	-140.16	273.3	-86.8	440.5	426.9	13.64	32.305	
3,500.0	3,438.4	3,429.8	3,433.0	8.8	4.8	-142.75	270.8	-88.1	464.8	450.8	13.94	33.335	
3,600.0	3,534.1	3,526.7	3,529.8	9.0	4.9	-145.23	267.2	-89.0	489.5	475.3	14.25	34.346	
3,700.0	3,629.8	3,621.2	3,624.3	9.2	5.0	-147.45	263.4	-89.7	514.8	500.2	14.56	35.360	
3,800.0	3,725.5	3,721.4	3,724.4	9.4	5.1	-149.42	261.0	-90.3	540.5	525.6	14.88	36.329	
3,900.0	3,821.2	3,816.9	3,819.9	9.6	5.2	-150.95	260.4	-90.4	566.0	550.9	15.18	37.287	
4,000.0	3,917.0	3,912.0	3,915.0	9.8	5.2	-152.35	259.8	-90.6	592.0	576.6	15.48	38.233	
4,100.0	4,012.7	4,005.5	4,008.5	10.0	5.3	-153.60	259.3	-90.9	618.5	602.7	15.79	39.176	
4,200.0	4,108.4	4,094.6	4,097.6	10.2	5.4	-154.88	256.8	-91.4	645.8	629.7	16.08	40.155	
4,300.0	4,204.1	4,176.1	4,178.9	10.4	5.5	-156.26	251.0	-92.3	674.8	658.4	16.36	41.242	
4,400.0	4,299.8	4,267.3	4,269.5	10.6	5.6	-157.90	241.7	-93.9	705.4	688.8	16.68	42.302	
4,500.0	4,395.6	4,347.8	4,349.6	10.8	5.7	-159.28	233.0	-95.8	737.4	720.4	16.96	43.480	
4,600.0	4,491.3	4,431.3	4,432.2	11.0	5.8	-160.75	221.7	-98.9	771.7	754.4	17.26	44.717	
4,700.0	4,587.0	4,559.8	4,559.6	11.3	6.0	-162.79	205.0	-102.1	805.6	787.9	17.72	45.472	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - THUNDERDOME FED COM 706H - PILOT HOLE - AWP

Offset Site Error: 0.0 usft

Survey Program: 100-r.5 SDI_KPR_WL_NS-CT, 206-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,800.0	4,682.7	4,653.2	4,652.2	11.5	6.1	-164.19	193.0	-101.5	836.9	818.8	18.05	46.368	
4,900.0	4,778.4	4,750.8	4,749.1	11.7	6.2	-165.53	180.9	-100.6	868.2	849.8	18.40	47.196	
5,000.0	4,874.2	4,845.7	4,843.3	11.9	6.4	-166.69	170.0	-99.7	899.7	880.9	18.74	48.021	
5,100.0	4,969.9	4,940.4	4,937.4	12.1	6.5	-167.75	159.5	-98.9	931.2	912.2	19.07	48.820	
5,200.0	5,065.6	5,033.4	5,029.9	12.4	6.6	-168.72	149.2	-98.0	963.1	943.7	19.41	49.614	
5,300.0	5,161.3	5,127.8	5,123.7	12.6	6.8	-169.64	138.8	-97.2	995.1	975.4	19.75	50.377	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - THUNDERDOME FED COM 706H - ST01 - AWP — **Offset Site Error:** 0.0 usft

Survey Program: 100-r.5 SDI_KPR_WL_NS-CT, 206-r.5 MWD+IFR1+SAG+FDIR, 10746-r.5 MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	4.0	0.0	3.0	-15.04	299.3	-80.4	310.0				
100.0	100.0	97.5	101.5	0.8	3.0	-15.13	299.0	-80.8	309.7	304.9	4.83	64.160	
200.0	200.0	199.1	203.0	1.4	3.1	-15.41	297.8	-82.1	309.0	303.8	5.18	59.675	
300.0	300.0	302.1	306.1	1.9	3.1	-15.76	295.9	-83.5	307.5	302.0	5.54	55.497	
400.0	400.0	400.3	404.2	2.2	3.2	-15.89	293.6	-83.6	305.3	299.4	5.89	51.860	
449.9	449.9	446.0	449.9	2.4	3.2	-15.77	293.5	-82.9	305.0	299.0	6.05	50.447	
500.0	500.0	492.1	496.0	2.6	3.2	-15.57	294.1	-82.0	305.3	299.1	6.21	49.207	
600.0	600.0	590.3	594.2	2.8	3.3	-15.09	296.3	-79.9	307.0	300.5	6.51	47.181	
700.0	700.0	691.6	695.4	3.1	3.3	-14.65	298.6	-78.1	308.7	301.9	6.80	45.391	
800.0	800.0	793.0	796.7	3.3	3.4	-14.21	300.5	-76.1	310.0	302.9	7.09	43.731	
900.0	900.0	896.5	900.3	3.6	3.4	-13.97	301.3	-74.9	310.4	303.1	7.37	42.127	
1,000.0	1,000.0	997.3	1,001.0	3.8	3.5	-14.02	301.0	-75.1	310.2	302.6	7.63	40.651	
1,100.0	1,100.0	1,097.6	1,101.4	4.0	3.5	-14.13	300.4	-75.6	309.8	301.9	7.89	39.286	
1,200.0	1,200.0	1,198.2	1,202.0	4.2	3.6	-14.25	299.8	-76.1	309.3	301.2	8.14	38.014	
1,300.0	1,300.0	1,299.4	1,303.1	4.4	3.6	-14.39	298.8	-76.7	308.5	300.1	8.39	36.791	
1,400.0	1,400.0	1,400.5	1,404.2	4.6	3.7	-14.52	297.4	-77.1	307.3	298.7	8.63	35.601	
1,500.0	1,500.0	1,500.8	1,504.6	4.7	3.7	-14.68	295.8	-77.5	305.8	297.0	8.88	34.458	
1,600.0	1,600.0	1,601.1	1,604.8	5.0	3.8	-70.54	294.0	-78.2	303.7	294.6	9.12	33.284	
1,700.0	1,699.8	1,697.8	1,701.5	5.3	3.8	-71.74	292.3	-79.0	300.5	291.2	9.36	32.100	
1,800.0	1,799.5	1,797.1	1,800.8	5.5	3.9	-73.71	291.3	-80.5	297.4	287.8	9.59	31.027	
1,900.0	1,898.7	1,892.4	1,896.0	5.8	4.0	-76.40	290.5	-82.7	294.3	284.5	9.79	30.045	
2,000.0	1,997.5	1,989.9	1,993.5	6.0	4.0	-79.50	291.4	-83.8	292.2	282.2	9.98	29.269	
2,100.0	2,095.6	2,086.7	2,090.3	6.2	4.0	-83.24	292.4	-85.1	290.9	280.7	10.17	28.600	
2,146.7	2,141.3	2,132.3	2,135.9	6.3	4.0	-85.23	293.0	-85.8	290.8	280.5	10.26	28.333 CC, ES	
2,200.0	2,193.1	2,184.2	2,187.8	6.5	4.1	-87.66	293.7	-86.5	291.0	280.6	10.37	28.067	
2,300.0	2,289.6	2,287.3	2,290.9	6.7	4.1	-92.83	294.8	-86.9	292.2	281.6	10.58	27.626	
2,341.2	2,329.2	2,327.4	2,331.0	6.7	4.1	-94.98	294.8	-86.6	292.8	282.2	10.63	27.543	
2,400.0	2,385.4	2,384.6	2,388.2	6.8	4.1	-98.10	294.8	-85.9	294.4	283.6	10.73	27.438	
2,500.0	2,481.2	2,481.7	2,485.3	7.0	4.2	-103.37	294.2	-84.8	298.7	287.7	10.98	27.203	
2,600.0	2,576.9	2,576.5	2,580.1	7.1	4.2	-108.45	293.2	-84.1	305.7	294.5	11.25	27.174 SF	
2,700.0	2,672.6	2,672.4	2,675.9	7.3	4.2	-113.39	292.1	-83.7	315.4	303.8	11.54	27.339	
2,800.0	2,768.3	2,767.5	2,771.0	7.5	4.3	-118.05	290.6	-83.4	327.4	315.6	11.83	27.680	
2,900.0	2,864.0	2,862.3	2,865.8	7.6	4.4	-122.42	288.8	-83.5	341.8	329.7	12.13	28.185	
3,000.0	2,959.8	2,956.7	2,960.2	7.8	4.4	-126.53	286.6	-84.0	358.3	345.9	12.43	28.834	
3,100.0	3,055.5	3,052.2	3,055.7	8.0	4.5	-130.41	283.8	-84.8	376.8	364.1	12.73	29.599	
3,200.0	3,151.2	3,150.0	3,153.4	8.2	4.6	-134.13	280.1	-85.1	396.3	383.3	13.04	30.391	
3,300.0	3,246.9	3,241.6	3,244.9	8.4	4.7	-137.35	276.1	-85.6	417.4	404.0	13.34	31.286	
3,400.0	3,342.6	3,333.8	3,337.1	8.6	4.7	-140.16	273.3	-86.8	440.5	426.9	13.64	32.305	
3,500.0	3,438.4	3,429.8	3,433.0	8.8	4.8	-142.75	270.8	-88.1	464.8	450.8	13.94	33.336	
3,600.0	3,534.1	3,526.7	3,529.8	9.0	4.9	-145.23	267.2	-89.0	489.5	475.3	14.25	34.346	
3,700.0	3,629.8	3,621.2	3,624.3	9.2	5.0	-147.45	263.4	-89.7	514.8	500.2	14.56	35.360	
3,800.0	3,725.5	3,721.4	3,724.4	9.4	5.1	-149.42	261.0	-90.3	540.5	525.6	14.88	36.329	
3,900.0	3,821.2	3,816.9	3,819.9	9.6	5.2	-150.95	260.4	-90.4	566.0	550.9	15.18	37.287	
4,000.0	3,917.0	3,912.0	3,915.0	9.8	5.2	-152.35	259.8	-90.6	592.0	576.6	15.48	38.233	
4,100.0	4,012.7	4,005.5	4,008.5	10.0	5.3	-153.60	259.3	-90.9	618.5	602.7	15.79	39.176	
4,200.0	4,108.4	4,094.6	4,097.6	10.2	5.4	-154.88	256.8	-91.4	645.8	629.7	16.08	40.155	
4,300.0	4,204.1	4,176.1	4,178.9	10.4	5.5	-156.26	251.0	-92.3	674.8	658.4	16.36	41.242	
4,400.0	4,299.8	4,267.3	4,269.5	10.6	5.6	-157.90	241.7	-93.9	705.4	688.8	16.68	42.302	
4,500.0	4,395.6	4,347.8	4,349.6	10.8	5.7	-159.28	233.0	-95.8	737.4	720.4	16.96	43.480	
4,600.0	4,491.3	4,431.3	4,432.2	11.0	5.8	-160.75	221.7	-98.9	771.7	754.4	17.26	44.717	
4,700.0	4,587.0	4,559.8	4,559.6	11.3	6.0	-162.79	205.0	-102.1	805.6	787.9	17.72	45.472	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - THUNDERDOME FED COM 706H - ST01 - AWP

Offset Site Error: 0.0 usft

Survey Program: 100-r.5 SDI_KPR_WL_NS-CT, 206-r.5 MWD+IFR1+SAG+FDIR, 10746-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,800.0	4,682.7	4,653.2	4,652.2	11.5	6.1	-164.19	193.0	-101.5	836.9	818.8	18.05	46.368	
4,900.0	4,778.4	4,750.8	4,749.1	11.7	6.2	-165.53	180.9	-100.6	868.2	849.8	18.40	47.196	
5,000.0	4,874.2	4,845.7	4,843.3	11.9	6.4	-166.69	170.0	-99.7	899.7	880.9	18.74	48.021	
5,100.0	4,969.9	4,940.4	4,937.4	12.1	6.5	-167.75	159.5	-98.9	931.2	912.2	19.07	48.820	
5,200.0	5,065.6	5,033.4	5,029.9	12.4	6.6	-168.72	149.2	-98.0	963.1	943.7	19.41	49.614	
5,300.0	5,161.3	5,127.8	5,123.7	12.6	6.8	-169.64	138.8	-97.2	995.1	975.4	19.75	50.377	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - THUNDERDOME FED COM 708H - OWB - AWP — **Offset Site Error:** 0.0 usft

Survey Program: 100-r.5 SDI_KPR_WL_NS-CT, 209-r.5 MWD+IFR1+SAG+FDIR, 10594-r.5 MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	1.0	0.0	3.0	-3.91	299.4	-20.5	300.1				
100.0	100.0	99.6	100.6	0.8	3.0	-4.00	299.3	-20.9	300.0	295.2	4.83	62.127	
200.0	200.0	201.3	202.3	1.4	3.1	-4.20	298.4	-21.9	299.2	294.0	5.18	57.771	
300.0	300.0	301.7	302.7	1.9	3.1	-4.40	297.5	-22.9	298.3	292.8	5.54	53.852	
400.0	400.0	401.5	402.5	2.2	3.2	-4.61	296.5	-23.9	297.5	291.6	5.89	50.541	
416.7	416.7	415.7	416.7	2.3	3.2	-4.64	296.4	-24.1	297.4	291.4	5.94	50.079	
500.0	500.0	494.4	495.4	2.6	3.2	-4.80	297.2	-25.0	298.2	292.0	6.20	48.070	
600.0	600.0	588.2	589.1	2.8	3.3	-4.85	300.1	-25.5	301.4	294.8	6.51	46.318	
700.0	700.0	688.3	689.1	3.1	3.3	-4.88	303.7	-25.9	305.0	298.2	6.81	44.814	
800.0	800.0	789.5	790.3	3.3	3.4	-4.94	307.1	-26.6	308.4	301.3	7.10	43.419	
900.0	900.0	889.5	890.2	3.6	3.4	-5.00	310.2	-27.1	311.5	304.1	7.39	42.143	
1,000.0	1,000.0	989.8	990.5	3.8	3.5	-5.05	313.2	-27.7	314.6	306.9	7.68	40.974	
1,100.0	1,100.0	1,089.6	1,090.3	4.0	3.6	-5.09	316.2	-28.2	317.6	309.7	7.96	39.909	
1,200.0	1,200.0	1,195.6	1,196.2	4.2	3.7	-5.18	318.7	-28.9	320.0	311.8	8.24	38.833	
1,300.0	1,300.0	1,302.7	1,303.3	4.4	3.7	-5.30	318.8	-29.6	320.2	311.7	8.49	37.727	
1,400.0	1,400.0	1,403.7	1,404.3	4.6	3.7	-5.29	317.5	-29.4	318.9	310.2	8.70	36.665	
1,500.0	1,500.0	1,503.2	1,503.8	4.7	3.8	-5.32	316.2	-29.5	317.6	308.7	8.91	35.649	
1,600.0	1,600.0	1,603.4	1,604.0	5.0	3.8	-60.98	315.0	-29.6	315.6	306.4	9.14	34.516	
1,700.0	1,699.8	1,703.7	1,704.3	5.3	3.8	-61.94	313.6	-29.7	311.7	302.3	9.37	33.268	
1,800.0	1,799.5	1,803.2	1,803.7	5.5	3.9	-63.54	312.2	-29.9	306.3	296.7	9.59	31.931	
1,900.0	1,898.7	1,902.1	1,902.7	5.8	3.9	-65.81	310.8	-30.1	299.7	289.8	9.81	30.555	
2,000.0	1,997.5	2,000.7	2,001.3	6.0	4.0	-68.86	309.3	-30.6	292.2	282.2	10.02	29.180	
2,100.0	2,095.6	2,098.5	2,099.0	6.2	4.0	-72.68	307.9	-31.1	284.6	274.4	10.22	27.858	
2,200.0	2,193.1	2,195.2	2,195.7	6.5	4.1	-77.31	306.6	-31.7	277.5	267.1	10.41	26.657	
2,300.0	2,289.6	2,289.3	2,289.8	6.7	4.1	-82.61	305.6	-32.3	272.1	261.5	10.61	25.649	
2,341.2	2,329.2	2,327.9	2,328.4	6.7	4.1	-84.95	305.6	-32.4	270.8	260.2	10.66	25.416	
2,400.0	2,385.4	2,383.3	2,383.8	6.8	4.2	-88.37	305.7	-32.7	270.1	259.3	10.74	25.135	
2,407.4	2,392.5	2,390.4	2,390.9	6.8	4.2	-88.81	305.8	-32.7	270.1	259.3	10.76	25.095 CC, ES	
2,500.0	2,481.2	2,480.8	2,481.3	7.0	4.2	-94.44	305.8	-33.3	271.3	260.3	10.99	24.694	
2,600.0	2,576.9	2,575.9	2,576.4	7.1	4.2	-99.90	306.7	-32.3	275.1	263.8	11.23	24.500	
2,700.0	2,672.6	2,673.6	2,673.9	7.3	4.3	-104.48	310.9	-28.5	281.4	269.9	11.48	24.510	
2,800.0	2,768.3	2,777.4	2,777.2	7.5	4.3	-108.24	318.2	-20.9	288.5	276.8	11.74	24.575	
2,900.0	2,864.0	2,885.0	2,883.8	7.6	4.3	-111.26	327.1	-8.9	294.3	282.3	12.00	24.529	
3,000.0	2,959.8	2,982.7	2,980.2	7.8	4.3	-113.75	334.9	4.0	298.7	286.5	12.26	24.361	
3,100.0	3,055.5	3,081.0	3,077.5	8.0	4.4	-116.35	342.2	16.2	304.2	291.7	12.54	24.267	
3,200.0	3,151.2	3,182.7	3,178.2	8.2	4.4	-119.04	349.1	28.8	310.0	297.2	12.82	24.190	
3,300.0	3,246.9	3,289.7	3,284.0	8.4	4.5	-121.85	355.1	43.7	314.5	301.5	13.10	24.013	
3,400.0	3,342.6	3,386.2	3,379.4	8.6	4.5	-124.37	359.9	57.6	319.2	305.8	13.40	23.819	
3,500.0	3,438.4	3,502.5	3,493.8	8.8	4.6	-127.22	365.1	77.7	321.4	307.7	13.69	23.475	
3,600.0	3,534.1	3,612.3	3,600.7	9.0	4.7	-129.86	368.4	102.2	318.9	304.9	13.99	22.786	
3,700.0	3,629.8	3,707.6	3,693.7	9.2	4.8	-132.28	370.8	123.1	317.3	303.0	14.34	22.134	
3,759.7	3,687.0	3,765.7	3,750.5	9.3	4.9	-133.79	372.1	135.4	317.1	302.5	14.54	21.802	
3,800.0	3,725.5	3,804.0	3,787.9	9.4	4.9	-134.80	373.0	143.3	317.2	302.5	14.69	21.601	
3,900.0	3,821.2	3,900.5	3,882.5	9.6	5.0	-137.32	375.4	162.7	318.9	303.8	15.04	21.197	
4,000.0	3,917.0	4,006.5	3,986.1	9.8	5.1	-140.19	377.3	184.6	320.4	305.0	15.40	20.801	
4,100.0	4,012.7	4,113.6	4,090.3	10.0	5.2	-143.45	376.7	209.2	320.2	304.4	15.78	20.291	
4,150.5	4,061.0	4,161.5	4,136.9	10.1	5.3	-145.03	375.8	220.7	319.9	303.9	15.98	20.017	
4,200.0	4,108.4	4,209.1	4,183.1	10.2	5.4	-146.56	375.1	231.9	320.1	303.9	16.18	19.785	
4,300.0	4,204.1	4,306.1	4,277.5	10.4	5.5	-149.66	373.7	254.3	321.7	305.1	16.58	19.398	
4,400.0	4,299.8	4,403.1	4,371.9	10.6	5.6	-152.68	372.4	276.3	324.7	307.7	16.99	19.106	
4,500.0	4,395.6	4,499.3	4,465.8	10.8	5.8	-155.58	371.3	297.7	329.1	311.7	17.40	18.910	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - THUNDERDOME FED COM 708H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 100-r.5 SDI_KPR_WL_NS-CT, 209-r.5 MWD+IFR1+SAG+FDIR, 10594-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,600.0	4,491.3	4,597.7	4,561.8	11.0	5.9	-158.36	370.7	318.8	334.8	317.0	17.81	18.800	
4,700.0	4,587.0	4,694.3	4,656.1	11.3	6.0	-160.91	370.5	339.6	341.4	323.1	18.22	18.737	
4,800.0	4,682.7	4,789.4	4,749.2	11.5	6.2	-163.22	370.8	358.9	349.6	331.0	18.62	18.777	
4,900.0	4,778.4	4,895.0	4,852.5	11.7	6.3	-165.64	371.5	381.3	357.4	338.3	19.04	18.767	
5,000.0	4,874.2	4,992.7	4,947.9	11.9	6.5	-167.70	372.7	402.1	365.5	346.0	19.45	18.791	
5,100.0	4,969.9	5,090.7	5,043.8	12.1	6.7	-169.55	374.7	422.5	374.1	354.2	19.86	18.839	
5,200.0	5,065.6	5,187.8	5,138.8	12.4	6.8	-171.31	376.5	442.4	383.5	363.2	20.26	18.929	
5,300.0	5,161.3	5,292.5	5,240.7	12.6	7.0	-173.60	375.8	466.2	392.4	371.7	20.69	18.964	
5,400.0	5,257.0	5,391.9	5,337.4	12.8	7.2	-175.74	375.0	489.5	401.3	380.2	21.11	19.008	
5,500.0	5,352.8	5,485.4	5,428.4	13.0	7.4	-177.56	374.7	510.6	411.2	389.7	21.51	19.116	
5,600.0	5,448.5	5,577.8	5,518.8	13.3	7.5	-179.14	374.5	529.9	422.9	401.0	21.90	19.313	
5,700.0	5,544.2	5,670.8	5,610.1	13.5	7.7	179.49	374.5	547.7	436.3	414.1	22.28	19.587	
5,800.0	5,639.9	5,781.0	5,718.3	13.7	7.9	177.90	373.8	568.7	450.5	427.8	22.72	19.829	
5,900.0	5,735.6	5,882.9	5,817.6	13.9	8.1	176.29	373.4	591.5	462.1	438.9	23.14	19.968	
6,000.0	5,831.4	5,984.3	5,916.2	14.2	8.3	174.74	373.2	614.8	473.4	449.8	23.56	20.091	
6,100.0	5,927.1	6,083.8	6,012.9	14.4	8.4	173.25	373.0	638.1	484.6	460.6	23.98	20.212	
6,200.0	6,022.8	6,178.8	6,105.3	14.6	8.6	171.94	373.1	660.2	496.1	471.7	24.37	20.353	
6,300.0	6,118.5	6,271.3	6,196.0	14.9	8.8	171.17	375.5	678.4	508.8	484.1	24.76	20.553	
6,400.0	6,214.2	6,349.0	6,272.8	15.1	8.9	170.90	378.4	690.0	524.3	499.3	25.07	20.916	
6,500.0	6,310.0	6,438.5	6,361.6	15.3	9.1	170.75	380.8	700.5	542.9	517.5	25.41	21.361	
6,533.1	6,341.7	6,468.3	6,391.2	15.4	9.1	170.72	381.6	703.6	549.4	523.8	25.52	21.530	
6,600.0	6,405.8	6,528.5	6,451.2	15.5	9.2	170.73	383.0	709.4	562.5	536.8	25.73	21.863	
6,700.0	6,502.1	6,616.8	6,539.2	15.8	9.4	170.82	385.1	716.2	582.2	556.1	26.05	22.346	
6,800.0	6,598.8	6,711.3	6,633.5	16.0	9.5	170.95	386.9	722.3	601.3	574.9	26.40	22.778	
6,900.0	6,696.0	6,804.0	6,726.0	16.2	9.6	171.06	388.5	727.6	619.5	592.7	26.73	23.178	
7,000.0	6,793.6	6,899.1	6,820.9	16.4	9.8	171.17	389.7	732.3	636.7	609.6	27.06	23.530	
7,100.0	6,891.5	6,996.8	6,918.5	16.6	9.9	171.26	390.9	736.9	652.5	625.1	27.40	23.817	
7,200.0	6,989.8	7,094.2	7,015.8	16.8	10.0	171.33	392.0	741.2	666.9	639.1	27.73	24.050	
7,300.0	7,088.4	7,191.2	7,112.8	17.0	10.2	171.37	393.0	745.4	679.6	651.6	28.05	24.230	
7,400.0	7,187.2	7,273.0	7,194.5	17.2	10.3	171.41	393.3	748.2	691.8	663.5	28.29	24.457	
7,500.0	7,286.3	7,363.3	7,284.8	17.4	10.3	171.46	392.3	749.1	705.0	676.5	28.50	24.737	
7,600.0	7,385.7	7,462.8	7,384.3	17.6	10.4	171.51	391.2	749.9	716.7	687.9	28.75	24.932	
7,700.0	7,485.2	7,560.3	7,481.7	17.8	10.4	171.52	389.9	750.6	726.7	697.8	28.97	25.086	
7,800.0	7,584.8	7,657.3	7,578.7	18.0	10.4	171.52	388.5	751.0	735.4	706.3	29.17	25.211	
7,900.0	7,684.6	7,756.7	7,678.1	18.1	10.4	171.53	387.2	751.0	742.6	713.3	29.36	25.297	
8,000.0	7,784.5	7,861.0	7,782.5	18.3	10.4	171.56	386.5	751.0	747.7	718.2	29.55	25.305	
8,100.0	7,884.5	7,962.4	7,883.9	18.4	10.4	171.59	386.3	750.9	750.8	721.1	29.71	25.270	
8,200.0	7,984.5	8,062.0	7,983.4	18.5	10.4	171.63	386.6	750.7	751.9	722.0	29.86	25.176	
8,215.5	8,000.0	8,076.4	7,997.8	18.5	10.4	-133.06	386.6	750.6	751.9	722.1	29.87	25.175	
8,300.0	8,084.5	8,154.7	8,076.2	18.6	10.3	-133.01	386.7	749.8	752.5	722.6	29.89	25.178	
8,400.0	8,184.5	8,249.6	8,171.0	18.7	10.3	-133.04	385.5	748.9	754.0	724.1	29.91	25.213	
8,500.0	8,284.5	8,350.0	8,271.4	18.7	10.2	-133.08	383.8	747.9	755.9	726.0	29.95	25.244	
8,600.0	8,384.5	8,454.2	8,375.6	18.8	10.2	-133.10	382.6	747.1	757.3	727.3	30.00	25.247	
8,700.0	8,484.5	8,552.2	8,473.6	18.8	10.2	-133.11	381.7	746.3	758.5	728.5	30.03	25.257	
8,800.0	8,584.5	8,658.8	8,580.1	18.9	10.1	-133.15	380.4	745.7	759.8	729.7	30.10	25.245	
8,900.0	8,684.5	8,759.0	8,680.3	19.0	10.1	-133.17	379.9	745.6	760.2	730.0	30.16	25.204	
9,000.0	8,784.5	8,854.7	8,776.1	19.0	10.1	-133.16	379.5	745.0	761.0	730.8	30.20	25.202	
9,100.0	8,884.5	8,954.9	8,876.3	19.1	10.0	-133.15	378.8	744.1	762.1	731.9	30.24	25.203	
9,200.0	8,984.5	9,052.9	8,974.3	19.1	10.0	-133.17	377.8	743.3	763.3	733.0	30.28	25.206	
9,300.0	9,084.5	9,152.4	9,073.7	19.2	10.0	-133.19	376.7	742.5	764.7	734.4	30.33	25.212	
9,400.0	9,184.5	9,256.0	9,177.4	19.3	10.0	-133.27	375.1	742.5	765.8	735.4	30.40	25.187	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - THUNDERDOME FED COM 708H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 100-r.5 SDI_KPR_WL_NS-CT, 209-r.5 MWD+IFR1+SAG+FDIR, 10594-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,500.0	9,284.5	9,350.6	9,272.0	19.3	10.0	-133.39	373.0	742.7	767.1	736.6	30.47	25.178	
9,600.0	9,384.4	9,451.0	9,372.2	19.4	10.1	-133.55	370.3	742.9	768.8	738.3	30.55	25.168	
9,608.0	9,392.5	9,459.5	9,380.8	19.4	10.1	-133.57	370.1	742.9	768.9	738.4	30.55	25.166	
9,625.0	9,409.5	9,477.6	9,398.8	19.4	10.1	43.41	369.6	743.1	769.0	738.4	30.55	25.168	
9,650.0	9,434.4	9,503.3	9,424.6	19.4	10.1	43.50	368.8	743.3	768.2	737.6	30.54	25.157	
9,675.0	9,459.2	9,527.1	9,448.3	19.4	10.1	43.73	368.1	743.6	766.4	735.9	30.51	25.121	
9,700.0	9,483.9	9,547.9	9,469.1	19.3	10.1	44.09	367.5	743.7	763.8	733.4	30.47	25.065	
9,725.0	9,508.3	9,568.3	9,489.5	19.3	10.1	44.57	366.8	743.7	760.5	730.0	30.44	24.986	
9,750.0	9,532.4	9,586.3	9,507.5	19.3	10.1	45.16	366.1	743.6	756.4	726.0	30.39	24.888	
9,775.0	9,556.1	9,605.3	9,526.5	19.3	10.1	45.88	365.4	743.3	751.6	721.2	30.35	24.766	
9,800.0	9,579.3	9,625.2	9,546.4	19.2	10.1	46.76	364.5	743.0	746.1	715.8	30.30	24.620	
9,825.0	9,602.1	9,646.4	9,567.5	19.2	10.1	47.81	363.6	742.5	739.8	709.5	30.26	24.448	
9,850.0	9,624.2	9,667.5	9,588.6	19.2	10.1	49.02	362.6	742.0	732.8	702.6	30.22	24.253	
9,875.0	9,645.8	9,688.4	9,609.5	19.2	10.1	50.39	361.6	741.5	725.2	695.0	30.17	24.034	
9,900.0	9,666.6	9,710.9	9,631.9	19.1	10.1	51.99	360.5	741.0	716.9	686.8	30.13	23.790	
9,925.0	9,686.7	9,738.6	9,659.7	19.1	10.1	54.00	359.1	740.6	707.8	677.7	30.10	23.514	
9,950.0	9,706.0	9,763.0	9,684.0	19.1	10.1	56.12	358.1	740.3	698.1	668.0	30.07	23.214	
9,975.0	9,724.4	9,785.7	9,706.7	19.1	10.1	58.40	357.3	740.1	687.8	657.7	30.04	22.894	
10,000.0	9,741.9	9,805.8	9,726.7	19.1	10.1	60.75	356.7	740.0	677.0	647.0	30.01	22.560	
10,025.0	9,758.5	9,822.5	9,743.4	19.0	10.1	63.09	356.2	739.9	665.9	635.9	29.97	22.218	
10,050.0	9,774.0	9,836.9	9,757.8	19.0	10.1	65.42	355.7	739.7	654.6	624.7	29.93	21.874	
10,075.0	9,788.5	9,850.3	9,771.2	19.0	10.1	67.79	355.3	739.6	643.3	613.4	29.88	21.527	
10,100.0	9,801.9	9,862.9	9,783.8	19.0	10.2	70.18	354.9	739.4	632.0	602.2	29.84	21.182	
10,125.0	9,814.2	9,874.4	9,795.3	19.0	10.2	72.55	354.5	739.3	620.9	591.1	29.79	20.842	
10,150.0	9,825.4	9,885.1	9,806.0	19.0	10.2	74.89	354.1	739.1	610.0	580.2	29.74	20.511	
10,175.0	9,835.3	9,895.0	9,815.9	19.0	10.1	77.16	353.8	738.9	599.4	569.7	29.69	20.192	
10,200.0	9,844.0	9,904.0	9,824.9	19.0	10.1	79.33	353.5	738.7	589.3	559.6	29.63	19.889	
10,225.0	9,851.6	9,912.6	9,833.5	19.0	10.1	81.41	353.2	738.5	579.7	550.1	29.57	19.605	
10,250.0	9,857.8	9,920.0	9,840.9	19.0	10.1	83.30	352.9	738.4	570.7	541.2	29.50	19.346	
10,275.0	9,862.8	9,926.3	9,847.2	19.1	10.1	84.99	352.7	738.3	562.5	533.1	29.43	19.116	
10,300.0	9,866.4	9,931.1	9,852.0	19.1	10.1	86.42	352.5	738.2	555.1	525.8	29.34	18.918	
10,325.0	9,868.8	9,934.7	9,855.6	19.1	10.1	87.60	352.4	738.1	548.7	519.4	29.25	18.756	
10,350.0	9,869.9	9,936.8	9,857.7	19.1	10.1	88.49	352.3	738.1	543.2	514.1	29.15	18.633	
10,358.0	9,870.0	9,937.1	9,858.0	19.1	10.1	88.71	352.3	738.1	541.7	512.6	29.12	18.602	
10,400.0	9,870.0	9,938.7	9,859.5	19.2	10.1	88.88	352.3	738.1	535.7	506.7	28.93	18.515 SF	
10,457.0	9,870.0	9,940.7	9,861.6	19.3	10.1	89.10	352.2	738.0	532.6	504.0	28.66	18.585	
10,500.0	9,870.0	9,942.2	9,863.1	19.3	10.1	89.26	352.1	738.0	534.3	505.9	28.42	18.799	
10,600.0	9,870.0	9,945.7	9,866.6	19.5	10.1	89.64	352.0	737.9	551.4	523.5	27.90	19.768	
10,633.0	9,870.0	9,946.9	9,867.7	19.5	10.1	89.76	352.0	737.9	560.9	533.2	27.73	20.229	
10,700.0	9,870.0	9,949.1	9,870.0	19.6	10.1	90.00	351.9	737.9	586.1	558.6	27.43	21.362	
10,762.7	9,870.0	9,951.2	9,872.0	19.7	10.1	90.23	351.9	737.8	616.5	589.3	27.21	22.655	
10,800.0	9,870.0	9,952.4	9,873.2	19.8	10.1	90.36	351.8	737.8	637.2	610.1	27.10	23.512	
10,900.0	9,870.0	9,955.5	9,876.4	20.0	10.1	90.71	351.7	737.8	699.5	672.6	26.89	26.015	
11,000.0	9,870.0	9,958.6	9,879.5	20.2	10.1	91.04	351.6	737.7	769.8	743.0	26.77	28.759	
11,100.0	9,870.0	9,961.6	9,882.5	20.5	10.1	91.37	351.6	737.7	846.1	819.4	26.71	31.678	
11,200.0	9,870.0	9,964.6	9,885.4	20.7	10.1	91.70	351.5	737.6	926.9	900.2	26.69	34.726	

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Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - THUNDERDOME FED COM 709H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 100-r.5 SDI_KPR_WL_NS-CT, 166-r.5 MWD+IFR1+SAG+FDIR, 10875-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	3.0	0.0	0.0	3.0	1.83	299.3	9.5	299.5				
100.0	100.0	103.3	100.3	0.8	3.0	1.69	299.3	8.8	299.4	294.6	4.83	61.993	
200.0	200.0	204.9	201.9	1.4	3.2	1.49	298.9	7.8	299.0	293.6	5.37	55.708	
300.0	300.0	305.3	302.3	1.9	3.3	1.38	298.2	7.2	298.3	292.6	5.72	52.148	
400.0	400.0	405.5	402.5	2.2	3.3	1.31	297.4	6.8	297.5	291.5	6.06	49.113	
451.9	451.9	454.9	451.9	2.4	3.3	1.30	297.2	6.7	297.2	291.0	6.22	47.778	
500.0	500.0	500.2	497.1	2.6	3.4	1.33	297.4	6.9	297.5	291.1	6.37	46.718	
600.0	600.0	601.1	598.1	2.8	3.4	1.31	297.9	6.8	297.9	291.3	6.66	44.717	
700.0	700.0	700.4	697.4	3.1	3.5	1.26	298.6	6.6	298.7	291.8	6.95	42.992	
800.0	800.0	800.9	797.8	3.3	3.5	1.15	299.4	6.0	299.5	292.3	7.23	41.433	
900.0	900.0	900.8	897.7	3.6	3.6	1.02	300.2	5.3	300.2	292.7	7.50	40.017	
1,000.0	1,000.0	1,001.1	998.0	3.8	3.6	0.89	300.9	4.7	301.0	293.2	7.77	38.728	
1,100.0	1,100.0	1,099.9	1,096.8	4.0	3.7	0.83	301.6	4.4	301.7	293.7	8.03	37.559	
1,200.0	1,200.0	1,199.3	1,196.3	4.2	3.7	0.88	302.9	4.6	302.9	294.6	8.29	36.548	
1,300.0	1,300.0	1,299.6	1,296.5	4.4	3.8	0.96	304.0	5.1	304.0	295.5	8.54	35.603	
1,400.0	1,400.0	1,399.3	1,396.3	4.6	3.8	1.03	305.2	5.5	305.3	296.5	8.79	34.733	
1,500.0	1,500.0	1,499.6	1,496.5	4.7	3.9	1.12	306.4	6.0	306.4	297.4	9.04	33.918	
1,600.0	1,600.0	1,601.8	1,598.7	5.0	4.0	-54.24	307.1	7.2	306.2	296.9	9.30	32.912	
1,700.0	1,699.8	1,701.8	1,698.7	5.3	4.0	-54.78	307.4	8.8	303.5	293.9	9.55	31.768	
1,800.0	1,799.5	1,802.2	1,799.1	5.5	4.0	-55.94	307.7	10.3	298.8	289.0	9.80	30.503	
1,900.0	1,898.7	1,901.6	1,898.5	5.8	4.1	-57.75	307.8	11.7	292.1	282.1	10.03	29.139	
2,000.0	1,997.5	2,000.7	1,997.5	6.0	4.1	-60.31	307.9	12.9	284.1	273.8	10.24	27.728	
2,100.0	2,095.6	2,099.4	2,096.2	6.2	4.2	-63.68	307.9	14.0	274.9	264.4	10.45	26.308	
2,200.0	2,193.1	2,196.3	2,193.2	6.5	4.2	-67.88	308.0	15.0	265.3	254.6	10.64	24.941	
2,300.0	2,289.6	2,292.8	2,289.6	6.7	4.3	-73.05	308.1	15.8	256.3	245.5	10.82	23.697	
2,341.2	2,329.2	2,331.5	2,328.3	6.7	4.3	-75.42	308.3	16.1	253.1	242.2	10.85	23.323	
2,400.0	2,385.4	2,388.6	2,385.5	6.8	4.4	-78.96	308.8	16.7	249.4	238.5	10.92	22.836	
2,500.0	2,481.2	2,489.2	2,486.0	7.0	4.4	-84.88	309.9	19.9	244.7	233.6	11.12	22.008	
2,600.0	2,576.9	2,592.6	2,589.0	7.1	4.5	-90.17	311.6	28.1	240.5	229.2	11.34	21.216	
2,700.0	2,672.6	2,700.6	2,695.8	7.3	4.6	-94.42	313.6	44.0	234.3	222.7	11.56	20.269	
2,800.0	2,768.3	2,804.2	2,797.7	7.5	4.7	-98.32	314.1	62.7	225.9	214.1	11.80	19.143	
2,900.0	2,864.0	2,909.0	2,899.9	7.6	4.9	-101.80	314.4	85.7	215.5	203.5	12.05	17.892	
3,000.0	2,959.8	3,005.4	2,993.6	7.8	5.0	-104.95	315.1	108.4	205.2	192.9	12.35	16.621	
3,100.0	3,055.5	3,104.2	3,089.9	8.0	5.1	-108.70	315.7	130.6	196.3	183.6	12.66	15.508	
3,200.0	3,151.2	3,210.7	3,192.9	8.2	5.2	-112.77	315.9	157.4	185.8	172.9	12.95	14.350	
3,300.0	3,246.9	3,307.6	3,286.3	8.4	5.4	-116.71	315.8	183.3	174.7	161.4	13.32	13.121	
3,400.0	3,342.6	3,405.4	3,380.9	8.6	5.5	-121.48	315.3	208.2	165.6	151.8	13.71	12.073	
3,500.0	3,438.4	3,503.2	3,475.6	8.8	5.7	-127.00	314.3	232.6	158.1	143.9	14.15	11.172	
3,600.0	3,534.1	3,600.9	3,570.4	9.0	5.8	-133.18	312.8	256.4	152.7	138.1	14.62	10.443	
3,700.0	3,629.8	3,697.9	3,664.7	9.2	6.0	-139.86	311.0	279.2	150.1	134.9	15.14	9.914	
3,736.4	3,664.6	3,733.2	3,699.0	9.2	6.0	-142.32	310.3	287.4	149.8	134.5	15.33	9.777	
3,800.0	3,725.5	3,794.1	3,758.3	9.4	6.1	-146.54	309.3	300.9	150.6	135.0	15.66	9.619	
3,900.0	3,821.2	3,890.6	3,852.6	9.6	6.3	-152.93	308.0	321.2	154.9	138.7	16.17	9.579	
4,000.0	3,917.0	3,992.8	3,952.5	9.8	6.4	-159.20	306.8	343.0	160.8	144.2	16.65	9.659	
4,100.0	4,012.7	4,095.5	4,052.0	10.0	6.6	-165.41	305.5	368.3	165.2	148.0	17.13	9.642	
4,200.0	4,108.4	4,194.2	4,147.4	10.2	6.8	-171.19	304.3	393.8	170.3	152.7	17.60	9.676	
4,300.0	4,204.1	4,292.2	4,242.2	10.4	7.0	-176.43	303.3	418.8	177.1	159.0	18.04	9.815	
4,400.0	4,299.8	4,391.1	4,337.9	10.6	7.2	178.94	302.9	443.6	185.3	166.9	18.46	10.039	
4,500.0	4,395.6	4,491.0	4,434.5	10.8	7.4	174.78	303.2	468.9	194.1	175.3	18.87	10.287	
4,600.0	4,491.3	4,591.0	4,531.2	11.0	7.5	171.16	304.2	494.1	203.4	184.1	19.27	10.554	
4,700.0	4,587.0	4,691.4	4,628.2	11.3	7.7	167.88	305.9	520.0	212.5	192.8	19.67	10.805	

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Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - THUNDERDOME FED COM 709H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 100-r.5 SDI_KPR_WL_NS-CT, 166-r.5 MWD+IFR1+SAG+FDIR, 10875-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,800.0	4,682.7	4,789.4	4,723.1	11.5	7.9	165.21	308.4	544.6	222.0	202.0	20.06	11.072	
4,900.0	4,778.4	4,886.1	4,817.0	11.7	8.1	163.09	311.1	567.5	232.8	212.4	20.44	11.392	
5,000.0	4,874.2	4,985.7	4,914.0	11.9	8.3	161.33	313.9	590.0	244.5	223.6	20.82	11.739	
5,100.0	4,969.9	5,085.4	5,010.5	12.1	8.5	159.22	316.0	614.7	255.7	234.5	21.21	12.054	
5,200.0	5,065.6	5,183.5	5,105.0	12.4	8.7	156.68	315.8	641.1	267.9	246.3	21.59	12.408	
5,300.0	5,161.3	5,282.9	5,200.6	12.6	8.9	154.33	316.1	668.1	280.1	258.1	21.97	12.746	
5,400.0	5,257.0	5,383.7	5,297.7	12.8	9.2	152.22	316.8	695.3	292.4	270.0	22.36	13.073	
5,500.0	5,352.8	5,484.6	5,394.9	13.0	9.4	150.32	318.4	722.7	304.1	281.4	22.76	13.363	
5,600.0	5,448.5	5,581.4	5,488.2	13.3	9.6	148.83	320.4	748.1	316.2	293.0	23.14	13.662	
5,700.0	5,544.2	5,679.6	5,583.3	13.5	9.8	147.65	322.5	772.5	328.9	305.4	23.53	13.978	
5,800.0	5,639.9	5,778.7	5,679.3	13.7	10.0	146.62	324.7	796.7	341.9	318.0	23.93	14.288	
5,900.0	5,735.6	5,877.6	5,775.3	13.9	10.2	145.69	327.0	820.8	354.9	330.6	24.33	14.591	
6,000.0	5,831.4	5,977.3	5,871.9	14.2	10.4	144.77	329.2	845.4	368.0	343.3	24.73	14.882	
6,100.0	5,927.1	6,079.2	5,970.4	14.4	10.6	143.83	331.8	871.0	380.7	355.5	25.14	15.141	
6,200.0	6,022.8	6,179.6	6,067.4	14.6	10.8	142.91	334.9	896.9	392.8	367.2	25.55	15.372	
6,300.0	6,118.5	6,276.5	6,161.2	14.9	11.1	142.17	338.0	921.2	405.1	379.2	25.95	15.610	
6,400.0	6,214.2	6,370.4	6,252.5	15.1	11.3	141.75	340.7	942.7	418.4	392.0	26.34	15.883	
6,500.0	6,310.0	6,458.6	6,338.6	15.3	11.4	141.48	342.1	961.8	433.4	406.7	26.70	16.231	
6,533.1	6,341.7	6,490.2	6,369.5	15.4	11.5	141.39	342.1	968.6	438.9	412.1	26.82	16.366	
6,600.0	6,405.8	6,554.1	6,432.1	15.5	11.6	141.31	342.1	981.6	449.9	422.8	27.06	16.626	
6,700.0	6,502.1	6,650.2	6,526.2	15.8	11.8	141.10	341.6	1,001.0	465.7	438.3	27.43	16.976	
6,800.0	6,598.8	6,746.0	6,620.1	16.0	12.0	140.79	340.2	1,020.0	481.1	453.3	27.79	17.311	
6,900.0	6,696.0	6,855.3	6,727.0	16.2	12.2	140.21	339.8	1,042.7	494.1	465.9	28.21	17.515	
7,000.0	6,793.6	6,951.4	6,820.8	16.4	12.4	139.57	339.8	1,063.1	505.2	476.7	28.55	17.696	
7,100.0	6,891.5	7,050.5	6,917.8	16.6	12.6	138.88	339.7	1,083.4	515.4	486.5	28.89	17.840	
7,200.0	6,989.8	7,153.9	7,018.8	16.8	12.9	137.90	339.7	1,106.0	523.9	494.7	29.24	17.919	
7,300.0	7,088.4	7,251.8	7,114.0	17.0	13.1	136.72	339.7	1,128.9	531.1	501.6	29.55	17.974	
7,400.0	7,187.2	7,348.9	7,208.5	17.2	13.3	135.54	339.5	1,150.7	537.7	507.8	29.84	18.019	
7,500.0	7,286.3	7,456.1	7,313.2	17.4	13.5	134.19	339.7	1,174.1	542.9	512.8	30.15	18.004	
7,600.0	7,385.7	7,566.8	7,420.7	17.6	13.8	132.52	342.9	1,200.1	544.3	513.9	30.47	17.867	
7,700.0	7,485.2	7,658.5	7,510.1	17.8	14.0	131.13	345.6	1,220.5	545.2	514.5	30.69	17.766	
7,800.0	7,584.8	7,754.4	7,604.2	18.0	14.1	129.86	347.4	1,238.8	546.6	515.7	30.90	17.689	
7,900.0	7,684.6	7,852.1	7,700.4	18.1	14.3	128.60	349.1	1,255.9	547.4	516.4	31.10	17.604	
8,000.0	7,784.5	7,952.8	7,799.9	18.3	14.5	127.40	351.0	1,271.1	547.5	516.2	31.29	17.497	
8,100.0	7,884.5	8,054.5	7,900.8	18.4	14.7	126.35	353.4	1,283.5	546.4	515.0	31.46	17.368	
8,200.0	7,984.5	8,161.5	8,007.3	18.5	14.9	125.44	357.1	1,293.0	543.4	511.8	31.63	17.181	
8,215.5	8,000.0	8,177.5	8,023.3	18.5	14.9	-179.38	357.7	1,294.1	542.8	511.1	31.64	17.153	
8,300.0	8,084.5	8,263.3	8,108.8	18.6	15.0	-179.84	361.6	1,298.5	539.0	507.3	31.75	16.978	
8,400.0	8,184.5	8,356.4	8,201.8	18.7	15.2	179.80	365.4	1,301.8	534.9	503.1	31.84	16.803	
8,500.0	8,284.5	8,446.1	8,291.5	18.7	15.3	179.48	367.3	1,304.9	532.8	500.9	31.91	16.696	
8,600.0	8,384.5	8,540.0	8,385.3	18.8	15.4	179.17	368.1	1,307.7	532.0	500.0	32.00	16.623	
8,607.7	8,392.2	8,546.9	8,392.2	18.8	15.4	179.15	368.1	1,307.9	532.0	499.9	32.01	16.621	
8,700.0	8,484.5	8,628.9	8,474.2	18.8	15.5	178.82	367.2	1,311.0	533.0	500.9	32.06	16.625	
8,800.0	8,584.5	8,729.7	8,574.9	18.9	15.6	178.56	365.6	1,313.4	534.7	502.5	32.15	16.629	
8,900.0	8,684.5	8,817.1	8,662.2	19.0	15.7	178.11	363.1	1,317.7	537.7	505.5	32.20	16.697	
9,000.0	8,784.5	8,912.3	8,757.0	19.0	15.8	177.37	359.1	1,324.8	542.2	509.9	32.28	16.795	
9,100.0	8,884.5	9,012.8	8,857.1	19.1	15.9	176.61	354.4	1,332.3	547.2	514.8	32.38	16.898	
9,200.0	8,984.5	9,113.3	8,957.3	19.1	16.1	175.89	349.9	1,339.5	552.2	519.7	32.49	16.998	
9,300.0	9,084.5	9,224.5	9,068.2	19.2	16.2	175.24	345.8	1,346.2	556.4	523.7	32.62	17.055	
9,400.0	9,184.5	9,332.8	9,176.5	19.3	16.3	174.96	344.7	1,349.0	557.5	524.7	32.75	17.020	
9,500.0	9,284.5	9,433.3	9,276.9	19.3	16.4	174.79	343.4	1,350.7	559.0	526.1	32.86	17.012	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

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Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - THUNDERDOME FED COM 709H - OWB - AWP — **Offset Site Error:** 0.0 usft

Survey Program: 100-r.5 SDI_KPR_WL_NS-CT, 166-r.5 MWD+IFR1+SAG+FDIR, 10875-r.5 MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,600.0	9,384.4	9,530.4	9,374.0	19.4	16.5	174.68	341.9	1,351.9	560.6	527.6	32.95	17.013	
9,608.0	9,392.5	9,538.5	9,382.1	19.4	16.5	174.68	341.8	1,352.0	560.7	527.8	32.96	17.013	
9,625.0	9,409.5	9,555.5	9,399.1	19.4	16.5	-8.35	341.5	1,352.3	560.7	527.8	32.96	17.013	
9,650.0	9,434.4	9,580.7	9,424.3	19.4	16.5	-8.42	341.1	1,352.6	559.7	526.7	32.95	16.985	
9,675.0	9,459.2	9,603.5	9,447.0	19.4	16.5	-8.53	340.6	1,352.9	557.4	524.4	32.93	16.924	
9,700.0	9,483.9	9,626.3	9,469.9	19.3	16.5	-8.69	340.1	1,353.3	553.9	520.9	32.91	16.829	
9,725.0	9,508.3	9,654.4	9,497.9	19.3	16.5	-8.91	339.5	1,353.7	549.0	516.1	32.90	16.688	
9,750.0	9,532.4	9,682.7	9,526.2	19.3	16.5	-9.17	339.1	1,353.8	542.8	509.9	32.88	16.506	
9,775.0	9,556.1	9,710.8	9,554.3	19.3	16.5	-9.46	338.9	1,353.6	535.1	502.3	32.86	16.283	
9,800.0	9,579.3	9,739.8	9,583.3	19.2	16.5	-9.78	338.9	1,352.9	525.9	493.1	32.84	16.014	
9,825.0	9,602.1	9,760.2	9,603.7	19.2	16.5	-10.11	339.0	1,352.2	515.6	482.8	32.80	15.718	
9,850.0	9,624.2	9,780.0	9,623.5	19.2	16.4	-10.50	338.9	1,351.4	504.1	471.4	32.76	15.390	
9,875.0	9,645.8	9,799.7	9,643.1	19.2	16.4	-10.96	338.7	1,350.6	491.7	459.0	32.71	15.031	
9,900.0	9,666.6	9,819.5	9,663.0	19.1	16.4	-11.51	338.5	1,349.8	478.2	445.5	32.67	14.638	
9,925.0	9,686.7	9,839.5	9,683.0	19.1	16.4	-12.18	338.2	1,348.9	463.7	431.1	32.62	14.213	
9,950.0	9,706.0	9,859.5	9,702.9	19.1	16.3	-13.00	338.0	1,348.0	448.2	415.6	32.58	13.754	
9,975.0	9,724.4	9,878.9	9,722.3	19.1	16.3	-13.99	337.7	1,347.1	431.6	399.1	32.54	13.264	
10,000.0	9,741.9	9,897.2	9,740.6	19.1	16.3	-15.18	337.6	1,346.2	414.1	381.7	32.50	12.744	
10,025.0	9,758.5	9,914.3	9,757.6	19.0	16.3	-16.64	337.4	1,345.4	395.8	363.3	32.45	12.197	
10,050.0	9,774.0	9,930.1	9,773.4	19.0	16.3	-18.41	337.3	1,344.7	376.6	344.2	32.40	11.624	
10,075.0	9,788.5	9,944.7	9,788.0	19.0	16.2	-20.58	337.2	1,344.0	356.7	324.3	32.35	11.027	
10,100.0	9,801.9	9,958.2	9,801.5	19.0	16.2	-23.28	337.0	1,343.4	336.1	303.8	32.29	10.408	
10,125.0	9,814.2	9,970.7	9,814.0	19.0	16.2	-26.64	336.9	1,342.8	314.9	282.7	32.23	9.770	
10,150.0	9,825.4	9,982.0	9,825.3	19.0	16.2	-30.85	336.8	1,342.3	293.1	261.0	32.16	9.114	
10,175.0	9,835.3	9,992.0	9,835.2	19.0	16.2	-36.06	336.7	1,341.8	271.0	238.9	32.09	8.444	
10,200.0	9,844.0	10,000.0	9,843.2	19.0	16.2	-42.23	336.6	1,341.5	248.5	216.5	32.00	7.764	
10,225.0	9,851.6	10,007.7	9,850.9	19.0	16.2	-49.87	336.6	1,341.2	225.7	193.8	31.91	7.074	
10,250.0	9,857.8	10,013.7	9,857.0	19.0	16.1	-58.31	336.5	1,341.0	202.9	171.1	31.80	6.380	
10,275.0	9,862.8	10,019.0	9,862.2	19.1	16.1	-67.42	336.4	1,340.9	180.1	148.4	31.68	5.686	
10,300.0	9,866.4	10,023.0	9,866.2	19.1	16.1	-76.10	336.4	1,340.7	157.7	126.1	31.54	4.998	
10,325.0	9,868.8	10,025.6	9,868.9	19.1	16.1	-83.49	336.3	1,340.7	135.8	104.4	31.41	4.325	
10,350.0	9,869.9	10,027.0	9,870.3	19.1	16.1	-89.05	336.3	1,340.6	115.2	83.9	31.30	3.679	
10,358.0	9,870.0	10,027.2	9,870.4	19.1	16.1	-90.40	336.3	1,340.6	108.9	77.6	31.29	3.481	
10,400.0	9,870.0	10,027.8	9,871.0	19.2	16.1	-90.88	336.3	1,340.6	81.4	49.7	31.67	2.570	Normal Operations
10,441.4	9,870.0	10,028.4	9,871.6	19.2	16.1	-91.35	336.3	1,340.6	70.1	36.6	33.46	2.094	Caution - Monitor Closely, CC, ES, SF
10,500.0	9,870.0	10,029.2	9,872.4	19.3	16.1	-92.02	336.3	1,340.6	91.4	56.3	35.01	2.610	Normal Operations
10,600.0	9,870.0	10,030.6	9,873.8	19.5	16.1	-93.14	336.3	1,340.6	173.4	139.0	34.35	5.047	
10,633.0	9,870.0	10,031.0	9,874.3	19.5	16.1	-93.51	336.2	1,340.5	204.0	169.9	34.16	5.973	
10,700.0	9,870.0	10,031.9	9,875.1	19.6	16.1	-93.94	336.2	1,340.5	267.7	233.8	33.87	7.904	
10,762.7	9,870.0	10,032.7	9,875.9	19.7	16.1	-94.19	336.2	1,340.5	328.2	294.5	33.67	9.745	
10,800.0	9,870.0	10,033.2	9,876.4	19.8	16.1	-94.51	336.2	1,340.5	364.4	330.8	33.58	10.852	
10,900.0	9,870.0	10,034.4	9,877.6	20.0	16.1	-95.36	336.2	1,340.5	462.4	429.0	33.41	13.841	
11,000.0	9,870.0	10,035.6	9,878.8	20.2	16.1	-96.19	336.2	1,340.4	561.1	527.8	33.30	16.852	
11,100.0	9,870.0	10,036.7	9,880.0	20.5	16.1	-97.00	336.2	1,340.4	660.2	627.0	33.22	19.874	
11,200.0	9,870.0	10,037.9	9,881.1	20.7	16.1	-97.81	336.2	1,340.4	759.5	726.4	33.17	22.900	
11,300.0	9,870.0	10,039.0	9,882.3	21.0	16.1	-98.60	336.2	1,340.3	859.0	825.9	33.13	25.928	
11,400.0	9,870.0	10,040.3	9,883.5	21.4	16.1	-99.46	336.1	1,340.3	958.6	925.5	33.11	28.957	

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Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - THUNDERDOME FED COM 710H - OWB - AWP — **Offset Site Error:** 0.0 usft

Survey Program: 101-r.5 SDI_KPR_WL_NS-CT, 182-r.5 MWD+IFR1+SAG+FDIR, 10878-r.5 MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	4.0	0.0	0.0	3.0	7.52	299.3	39.5	301.9				
100.0	100.0	102.9	98.9	0.8	3.0	7.57	299.5	39.8	302.1	297.3	4.83	62.540	
200.0	200.0	202.4	198.4	1.4	3.1	7.68	299.8	40.4	302.5	297.3	5.19	58.321	
300.0	300.0	302.6	298.6	1.9	3.1	7.83	300.2	41.3	303.0	297.5	5.55	54.582	
400.0	400.0	402.9	398.9	2.2	3.2	7.99	300.5	42.2	303.4	297.5	5.90	51.458	
500.0	500.0	503.9	499.8	2.6	3.2	8.18	300.7	43.2	303.8	297.5	6.23	48.789	
600.0	600.0	607.7	603.7	2.8	3.3	8.51	299.6	44.8	302.9	296.4	6.54	46.331	
700.0	700.0	707.7	703.7	3.1	3.4	8.90	298.1	46.7	301.7	294.9	6.84	44.128	
800.0	800.0	808.2	804.1	3.3	3.4	9.22	296.5	48.2	300.4	293.3	7.13	42.151	
900.0	900.0	904.9	900.8	3.6	3.5	9.20	295.5	47.9	299.4	292.0	7.40	40.464	
948.1	948.1	952.2	948.1	3.7	3.5	9.13	295.5	47.5	299.3	291.8	7.52	39.799	
1,000.0	1,000.0	1,003.9	999.8	3.8	3.5	9.03	295.6	47.0	299.3	291.7	7.65	39.116	
1,100.0	1,100.0	1,104.5	1,100.4	4.0	3.5	8.85	295.7	46.1	299.3	291.4	7.90	37.871	
1,200.0	1,200.0	1,204.6	1,200.5	4.2	3.6	8.66	295.7	45.0	299.1	291.0	8.15	36.710	
1,300.0	1,300.0	1,304.9	1,300.8	4.4	3.6	8.48	295.7	44.1	299.0	290.6	8.39	35.633	
1,400.0	1,400.0	1,405.1	1,401.0	4.6	3.7	8.29	295.5	43.1	298.6	290.0	8.63	34.609	
1,500.0	1,500.0	1,505.0	1,500.9	4.7	3.7	8.09	295.4	42.0	298.3	289.5	8.86	33.661	
1,600.0	1,600.0	1,604.9	1,600.8	5.0	3.8	-47.70	295.2	40.8	296.9	287.7	9.14	32.478	
1,700.0	1,699.8	1,704.6	1,700.5	5.3	3.8	-48.77	295.2	39.5	293.1	283.7	9.41	31.164	
1,800.0	1,799.5	1,803.1	1,798.9	5.5	3.9	-50.40	295.3	38.2	287.5	277.9	9.66	29.761	
1,900.0	1,898.7	1,903.7	1,899.5	5.8	3.9	-52.53	295.3	37.9	279.9	270.0	9.91	28.253	
2,000.0	1,997.5	2,001.2	1,997.0	6.0	3.9	-54.69	294.8	40.6	270.0	259.9	10.13	26.647	
2,100.0	2,095.6	2,098.0	2,093.6	6.2	4.0	-56.89	295.3	46.5	259.7	249.4	10.35	25.086	
2,200.0	2,193.1	2,195.7	2,190.9	6.5	4.0	-59.12	296.3	56.3	248.2	237.6	10.57	23.479	
2,300.0	2,289.6	2,296.2	2,290.4	6.7	4.1	-61.58	297.6	69.6	235.5	224.7	10.79	21.820	
2,341.2	2,329.2	2,339.3	2,333.0	6.7	4.1	-62.73	297.7	76.3	229.3	218.4	10.84	21.151	
2,400.0	2,385.4	2,400.4	2,393.3	6.8	4.1	-64.30	297.7	86.3	220.2	209.3	10.92	20.164	
2,500.0	2,481.2	2,504.0	2,495.1	7.0	4.2	-66.80	295.4	105.3	202.7	191.6	11.13	18.220	
2,600.0	2,576.9	2,605.2	2,594.0	7.1	4.3	-69.03	291.7	126.3	183.7	172.3	11.35	16.186	
2,700.0	2,672.6	2,706.3	2,692.1	7.3	4.4	-70.99	286.5	150.0	162.9	151.3	11.58	14.067	
2,800.0	2,768.3	2,804.7	2,786.9	7.5	4.5	-72.51	280.6	175.6	140.8	128.9	11.84	11.889	
2,900.0	2,864.0	2,902.3	2,880.3	7.6	4.6	-73.15	274.9	203.8	118.1	106.0	12.13	9.738	
3,000.0	2,959.8	3,000.3	2,973.0	7.8	4.7	-72.37	269.7	234.8	95.1	82.6	12.45	7.641	
3,100.0	3,055.5	3,098.6	3,065.3	8.0	4.8	-69.18	263.8	268.2	71.0	58.2	12.81	5.540	
3,200.0	3,151.2	3,195.2	3,155.7	8.2	5.0	-62.14	257.6	301.7	46.7	33.4	13.27	3.515	
3,300.0	3,246.9	3,292.1	3,246.7	8.4	5.1	-43.58	251.2	334.3	24.0	10.1	13.94	1.724	Caution - Monitor Closely
3,381.5	3,324.9	3,371.1	3,321.1	8.5	5.3	12.55	245.9	360.3	13.4	-0.9	14.32	0.935	STOP Drilling, CC, ES, SF
3,400.0	3,342.6	3,389.1	3,338.1	8.6	5.3	30.85	244.7	366.1	14.1	0.0	14.08	1.004	Take Immediate Action
3,500.0	3,438.4	3,486.2	3,429.9	8.8	5.5	78.26	238.1	397.1	31.7	17.8	13.92	2.280	Caution - Monitor Closely
3,600.0	3,534.1	3,583.3	3,521.9	9.0	5.7	90.27	231.2	427.4	54.7	40.3	14.35	3.811	
3,700.0	3,629.8	3,681.4	3,614.9	9.2	5.9	94.70	225.4	458.0	77.6	62.8	14.79	5.246	
3,800.0	3,725.5	3,780.0	3,708.6	9.4	6.1	96.99	220.6	488.6	99.7	84.5	15.22	6.552	
3,900.0	3,821.2	3,880.5	3,804.3	9.6	6.3	98.49	217.6	518.9	120.0	104.4	15.66	7.664	
4,000.0	3,917.0	3,983.1	3,901.8	9.8	6.5	98.52	218.7	550.7	136.9	120.8	16.09	8.509	
4,100.0	4,012.7	4,082.3	3,996.0	10.0	6.7	98.11	221.3	581.9	152.7	136.2	16.49	9.258	
4,200.0	4,108.4	4,181.3	4,089.6	10.2	6.9	97.36	224.6	614.0	168.3	151.4	16.89	9.962	
4,300.0	4,204.1	4,280.7	4,183.4	10.4	7.2	96.63	228.2	646.4	183.6	166.3	17.30	10.617	
4,400.0	4,299.8	4,380.3	4,277.7	10.6	7.4	96.15	232.1	678.3	198.6	180.9	17.71	11.217	
4,500.0	4,395.6	4,479.3	4,371.3	10.8	7.6	95.64	236.2	710.3	213.5	195.4	18.12	11.780	
4,600.0	4,491.3	4,579.2	4,465.5	11.0	7.8	94.98	240.9	743.1	228.1	209.6	18.55	12.300	
4,700.0	4,587.0	4,678.0	4,558.7	11.3	8.1	94.39	246.0	775.5	242.4	223.5	18.97	12.782	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - THUNDERDOME FED COM 710H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 101-r.5 SDI_KPR_WL_NS-CT, 182-r.5 MWD+IFR1+SAG+FDIR, 10878-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,800.0	4,682.7	4,769.6	4,645.5	11.5	8.3	94.26	248.9	804.7	258.0	238.6	19.35	13.332	
4,900.0	4,778.4	4,868.3	4,739.4	11.7	8.5	94.60	249.4	835.2	275.3	255.5	19.79	13.913	
5,000.0	4,874.2	4,968.2	4,834.8	11.9	8.8	95.10	249.8	865.1	292.3	272.1	20.23	14.448	
5,100.0	4,969.9	5,068.1	4,930.2	12.1	9.0	95.64	250.4	894.3	308.8	288.1	20.67	14.937	
5,200.0	5,065.6	5,167.2	5,025.0	12.4	9.2	96.07	251.3	923.4	325.1	304.0	21.11	15.397	
5,300.0	5,161.3	5,266.1	5,119.5	12.6	9.5	96.45	252.4	952.5	341.2	319.7	21.55	15.833	
5,400.0	5,257.0	5,365.1	5,214.0	12.8	9.7	96.74	253.7	981.8	357.4	335.4	21.99	16.248	
5,500.0	5,352.8	5,464.3	5,308.8	13.0	9.9	97.03	255.0	1,011.1	373.4	350.9	22.44	16.640	
5,600.0	5,448.5	5,563.9	5,403.8	13.3	10.2	97.19	256.8	1,040.9	389.2	366.3	22.89	17.006	
5,700.0	5,544.2	5,664.3	5,499.7	13.5	10.4	97.36	258.9	1,070.8	404.8	381.4	23.34	17.343	
5,800.0	5,639.9	5,765.0	5,596.1	13.7	10.6	97.67	260.9	1,099.6	419.8	396.0	23.79	17.648	
5,900.0	5,735.6	5,864.6	5,691.6	13.9	10.9	97.94	263.0	1,128.1	434.7	410.5	24.24	17.938	
6,000.0	5,831.4	5,959.8	5,782.3	14.2	11.1	98.00	265.5	1,156.7	450.0	425.3	24.67	18.240	
6,100.0	5,927.1	6,056.9	5,874.6	14.4	11.4	97.95	267.8	1,186.8	465.7	440.6	25.11	18.543	
6,200.0	6,022.8	6,153.4	5,966.0	14.6	11.6	97.80	270.2	1,217.6	481.8	456.2	25.56	18.850	
6,300.0	6,118.5	6,250.1	6,057.3	14.9	11.9	97.58	272.5	1,249.2	498.4	472.4	26.01	19.160	
6,400.0	6,214.2	6,348.1	6,149.9	15.1	12.1	97.37	274.6	1,281.5	515.2	488.8	26.47	19.464	
6,500.0	6,310.0	6,448.4	6,244.9	15.3	12.4	97.26	276.4	1,313.6	532.0	505.0	26.94	19.745	
6,533.1	6,341.7	6,481.8	6,276.6	15.4	12.5	97.26	277.0	1,324.0	537.4	510.3	27.09	19.842	
6,600.0	6,405.8	6,550.3	6,341.9	15.5	12.7	97.39	278.0	1,344.7	548.2	520.8	27.38	20.019	
6,700.0	6,502.1	6,650.4	6,437.7	15.8	12.9	97.56	279.5	1,373.7	563.6	535.8	27.83	20.255	
6,800.0	6,598.8	6,743.5	6,526.4	16.0	13.1	97.45	280.9	1,401.8	579.3	551.1	28.23	20.521	
6,900.0	6,696.0	6,839.7	6,618.0	16.2	13.4	97.15	281.9	1,431.5	595.6	566.9	28.64	20.798	
7,000.0	6,793.6	6,939.5	6,713.2	16.4	13.6	96.82	282.2	1,461.2	611.8	582.8	29.04	21.068	
7,100.0	6,891.5	7,039.4	6,809.1	16.6	13.9	96.50	282.1	1,489.3	627.5	598.0	29.42	21.325	
7,200.0	6,989.8	7,124.6	6,890.7	16.8	14.1	96.10	281.9	1,514.0	643.5	613.8	29.74	21.641	
7,300.0	7,088.4	7,213.2	6,974.9	17.0	14.3	95.51	280.1	1,541.3	661.9	631.9	30.06	22.023	
7,400.0	7,187.2	7,310.0	7,067.0	17.2	14.6	94.79	277.5	1,570.9	680.8	650.4	30.40	22.393	
7,500.0	7,286.3	7,422.2	7,172.9	17.4	14.9	93.51	277.2	1,607.9	698.9	668.1	30.81	22.686	
7,600.0	7,385.7	7,543.9	7,288.0	17.6	15.2	91.86	281.5	1,647.2	713.7	682.5	31.22	22.859	
7,700.0	7,485.2	7,638.9	7,377.9	17.8	15.5	90.51	285.6	1,677.6	728.2	696.7	31.52	23.103	
7,800.0	7,584.8	7,736.5	7,470.5	18.0	15.7	89.10	289.4	1,708.3	743.3	711.5	31.82	23.362	
7,900.0	7,684.6	7,849.5	7,578.0	18.1	16.0	87.43	293.9	1,742.8	758.4	726.2	32.15	23.589	
8,000.0	7,784.5	7,960.9	7,684.7	18.3	16.3	85.79	300.2	1,774.1	771.4	738.9	32.45	23.772	
8,100.0	7,884.5	8,077.7	7,797.5	18.4	16.5	84.17	306.4	1,803.6	783.4	750.7	32.73	23.936	
8,200.0	7,984.5	8,207.1	7,924.2	18.5	16.8	82.61	313.5	1,829.3	792.3	759.4	32.98	24.025	
8,215.5	8,000.0	8,224.4	7,941.2	18.5	16.8	137.73	314.4	1,832.2	793.5	760.5	33.00	24.042	
8,300.0	8,084.5	8,312.1	8,027.6	18.6	16.9	136.79	318.7	1,846.1	799.6	766.4	33.17	24.109	
8,400.0	8,184.5	8,420.2	8,134.5	18.7	17.1	135.77	323.2	1,861.5	806.5	773.1	33.35	24.182	
8,500.0	8,284.5	8,535.4	8,249.1	18.7	17.2	134.94	327.4	1,873.7	811.3	777.8	33.52	24.204	
8,600.0	8,384.5	8,623.5	8,336.8	18.8	17.3	134.47	329.1	1,881.5	816.3	782.6	33.68	24.235	
8,700.0	8,484.5	8,734.8	8,447.7	18.8	17.4	134.01	330.2	1,889.9	821.0	787.2	33.85	24.257	
8,800.0	8,584.5	8,822.2	8,534.8	18.9	17.5	133.66	330.6	1,896.7	826.3	792.3	34.02	24.293	
8,900.0	8,684.5	8,914.9	8,627.2	19.0	17.6	133.26	330.8	1,904.8	832.5	798.4	34.19	24.350	
9,000.0	8,784.5	8,992.1	8,703.9	19.0	17.7	132.87	330.8	1,913.2	840.5	806.2	34.37	24.455	
9,100.0	8,884.5	9,092.2	8,803.3	19.1	17.9	132.31	330.4	1,925.8	850.1	815.5	34.58	24.586	
9,200.0	8,984.5	9,196.3	8,906.7	19.1	18.0	131.82	329.2	1,937.9	859.5	824.8	34.78	24.712	
9,300.0	9,084.5	9,321.7	9,031.4	19.2	18.2	131.28	329.1	1,950.4	867.1	832.1	34.99	24.783	
9,400.0	9,184.5	9,477.2	9,186.6	19.3	18.3	130.79	331.6	1,958.6	869.9	834.8	35.12	24.768	
9,500.0	9,284.5	9,586.5	9,295.9	19.3	18.4	130.68	333.5	1,959.0	869.0	833.9	35.17	24.709	
9,600.0	9,384.4	9,685.9	9,395.3	19.4	18.4	130.60	335.4	1,958.8	867.7	832.4	35.21	24.639	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: THUNDERDOME PROJECT - THUNDERDOME FED COM 710H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 101-r.5 SDI_KPR_WL_NS-CT, 182-r.5 MWD+IFR1+SAG+FDIR, 10878-r.5 MWD+IFR1+SAG+FDIR **Rule Assigned:** **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,608.0	9,392.5	9,693.8	9,403.2	19.4	18.4	130.59	335.6	1,958.7	867.6	832.3	35.22	24.634	
9,625.0	9,409.5	9,710.4	9,419.8	19.4	18.4	-52.47	335.8	1,958.7	867.2	832.0	35.21	24.625	
9,650.0	9,434.4	9,735.6	9,445.0	19.4	18.5	-52.69	336.2	1,958.6	865.9	830.7	35.20	24.597	
9,675.0	9,459.2	9,760.9	9,470.2	19.4	18.5	-53.05	336.6	1,958.5	863.9	828.7	35.19	24.549	
9,700.0	9,483.9	9,786.0	9,495.4	19.3	18.5	-53.56	337.0	1,958.5	861.1	825.9	35.17	24.482	
9,725.0	9,508.3	9,810.9	9,520.3	19.3	18.5	-54.23	337.4	1,958.4	857.5	822.3	35.15	24.394	
9,750.0	9,532.4	9,834.0	9,543.3	19.3	18.5	-55.02	337.8	1,958.3	853.2	818.0	35.13	24.287	
9,775.0	9,556.1	9,856.7	9,566.0	19.3	18.5	-55.95	338.2	1,958.2	848.2	813.1	35.10	24.163	
9,800.0	9,579.3	9,879.1	9,588.5	19.2	18.5	-57.02	338.6	1,958.2	842.6	807.5	35.07	24.022	
9,825.0	9,602.1	9,900.7	9,610.0	19.2	18.5	-58.22	338.9	1,958.2	836.4	801.3	35.05	23.865	
9,850.0	9,624.2	9,924.4	9,633.8	19.2	18.5	-59.63	339.3	1,958.2	829.6	794.6	35.01	23.696	
9,875.0	9,645.8	9,948.3	9,657.7	19.2	18.6	-61.22	339.8	1,958.2	822.3	787.3	34.97	23.513	
9,900.0	9,666.6	9,971.3	9,680.6	19.1	18.6	-62.94	340.2	1,958.0	814.4	779.5	34.93	23.318	
9,925.0	9,686.7	9,993.4	9,702.7	19.1	18.6	-64.79	340.7	1,957.9	806.2	771.3	34.88	23.112	
9,950.0	9,706.0	10,013.9	9,723.2	19.1	18.6	-66.71	341.1	1,957.6	797.5	762.7	34.83	22.897	
9,975.0	9,724.4	10,033.5	9,742.8	19.1	18.6	-68.73	341.5	1,957.4	788.6	753.9	34.78	22.675	
10,000.0	9,741.9	10,052.3	9,761.6	19.1	18.6	-70.82	341.8	1,957.0	779.6	744.8	34.73	22.448	
10,025.0	9,758.5	10,070.2	9,779.5	19.0	18.6	-72.95	342.0	1,956.6	770.4	735.7	34.68	22.217	
10,050.0	9,774.0	10,086.8	9,796.1	19.0	18.6	-75.09	342.2	1,956.2	761.2	726.6	34.63	21.984	
10,075.0	9,788.5	10,101.5	9,810.8	19.0	18.6	-77.18	342.3	1,955.8	752.1	717.5	34.58	21.750	
10,100.0	9,801.9	10,114.7	9,824.0	19.0	18.6	-79.18	342.5	1,955.4	743.2	708.7	34.54	21.518	
10,125.0	9,814.2	10,126.9	9,836.2	19.0	18.5	-81.13	342.5	1,955.0	734.6	700.1	34.51	21.290	
10,150.0	9,825.4	10,138.1	9,847.4	19.0	18.5	-82.99	342.6	1,954.7	726.4	691.9	34.48	21.068	
10,175.0	9,835.3	10,148.0	9,857.3	19.0	18.5	-84.71	342.7	1,954.4	718.6	684.2	34.46	20.854	
10,200.0	9,844.0	10,156.7	9,866.0	19.0	18.5	-86.29	342.8	1,954.1	711.4	677.0	34.45	20.649	
10,225.0	9,851.6	10,164.2	9,873.5	19.0	18.5	-87.71	342.8	1,953.9	704.9	670.4	34.46	20.456	
10,250.0	9,857.8	10,170.4	9,879.7	19.0	18.5	-88.93	342.9	1,953.7	699.0	664.5	34.48	20.276	
10,275.0	9,862.8	10,175.3	9,884.6	19.1	18.5	-89.95	342.9	1,953.6	694.0	659.4	34.51	20.110	
10,300.0	9,866.4	10,178.9	9,888.2	19.1	18.5	-90.77	343.0	1,953.5	689.7	655.2	34.56	19.960	
10,325.0	9,868.8	10,181.1	9,890.4	19.1	18.5	-91.36	343.0	1,953.4	686.4	651.8	34.62	19.827	
10,350.0	9,869.9	10,182.1	9,891.3	19.1	18.5	-91.73	343.0	1,953.4	684.0	649.3	34.70	19.713	
10,358.0	9,870.0	10,182.1	9,891.3	19.1	18.5	-91.79	343.0	1,953.4	683.4	648.7	34.73	19.680	
10,400.0	9,870.0	10,181.8	9,891.0	19.2	18.5	-91.77	343.0	1,953.4	682.0	647.1	34.90	19.540	
10,404.4	9,870.0	10,181.7	9,891.0	19.2	18.5	-91.77	343.0	1,953.4	682.0	647.0	34.92	19.527	
10,500.0	9,870.0	10,181.0	9,890.3	19.3	18.5	-91.71	343.0	1,953.4	688.9	653.4	35.46	19.425	
10,600.0	9,870.0	10,180.3	9,889.5	19.5	18.5	-91.64	343.0	1,953.4	710.0	673.8	36.14	19.647	
10,633.0	9,870.0	10,180.0	9,889.3	19.5	18.5	-91.62	343.0	1,953.4	719.8	683.5	36.36	19.797	
10,700.0	9,870.0	10,179.5	9,888.8	19.6	18.5	-91.57	343.0	1,953.5	743.3	706.4	36.82	20.186	
10,762.7	9,870.0	10,179.0	9,888.2	19.7	18.5	-91.51	343.0	1,953.5	768.6	731.3	37.23	20.644	
10,800.0	9,870.0	10,178.7	9,887.9	19.8	18.5	-91.48	343.0	1,953.5	785.3	747.8	37.46	20.964	
10,900.0	9,870.0	10,177.8	9,887.0	20.0	18.5	-91.41	343.0	1,953.5	836.6	798.6	38.02	22.004	
11,000.0	9,870.0	10,176.9	9,886.2	20.2	18.5	-91.34	343.0	1,953.5	896.2	857.7	38.48	23.290	
11,100.0	9,870.0	10,176.1	9,885.3	20.5	18.5	-91.27	343.0	1,953.6	962.5	923.6	38.84	24.778	

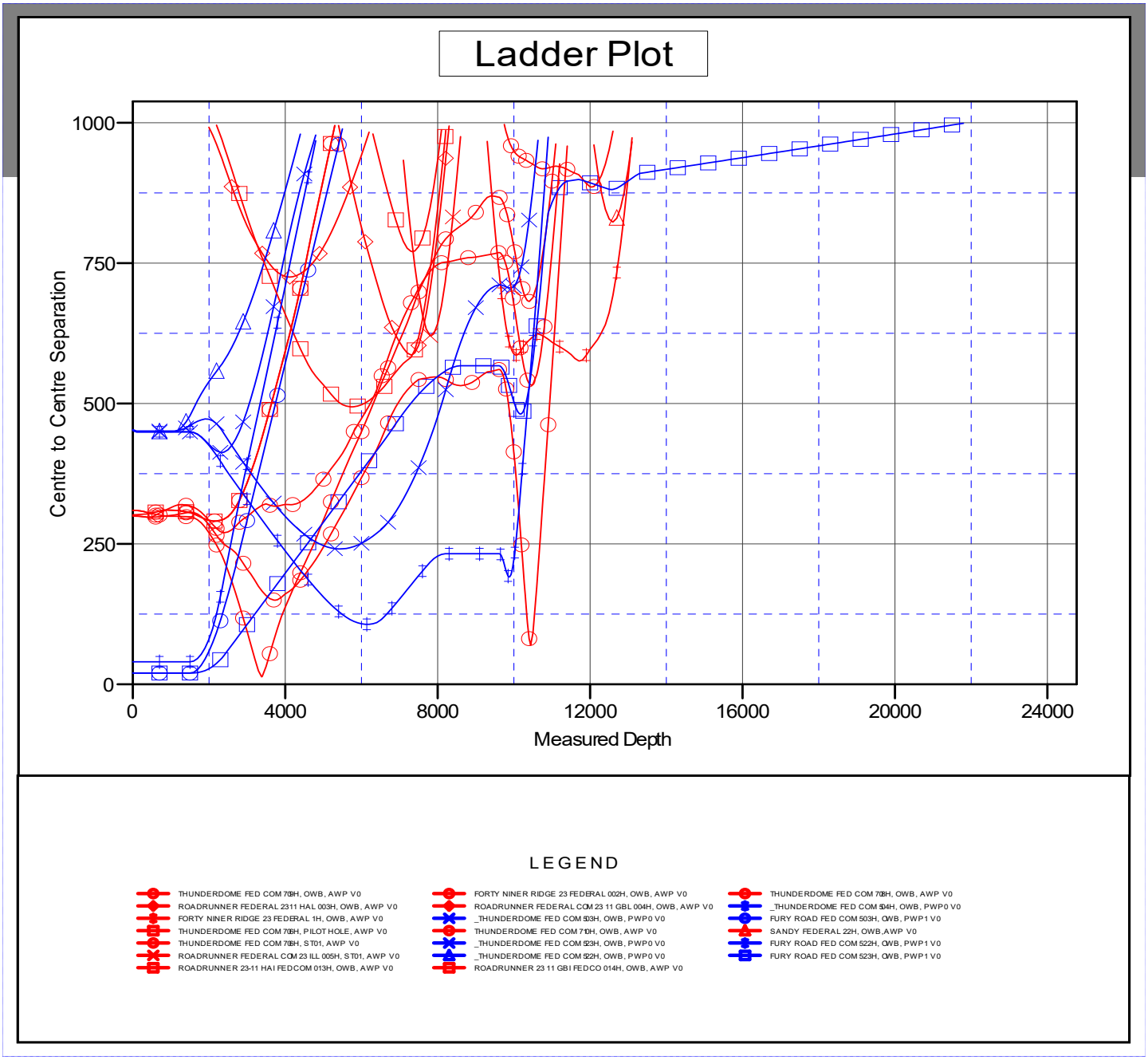
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to KB @ 3292.0usft (NABORS X09)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FURY ROAD FED COM 504H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.26°



CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

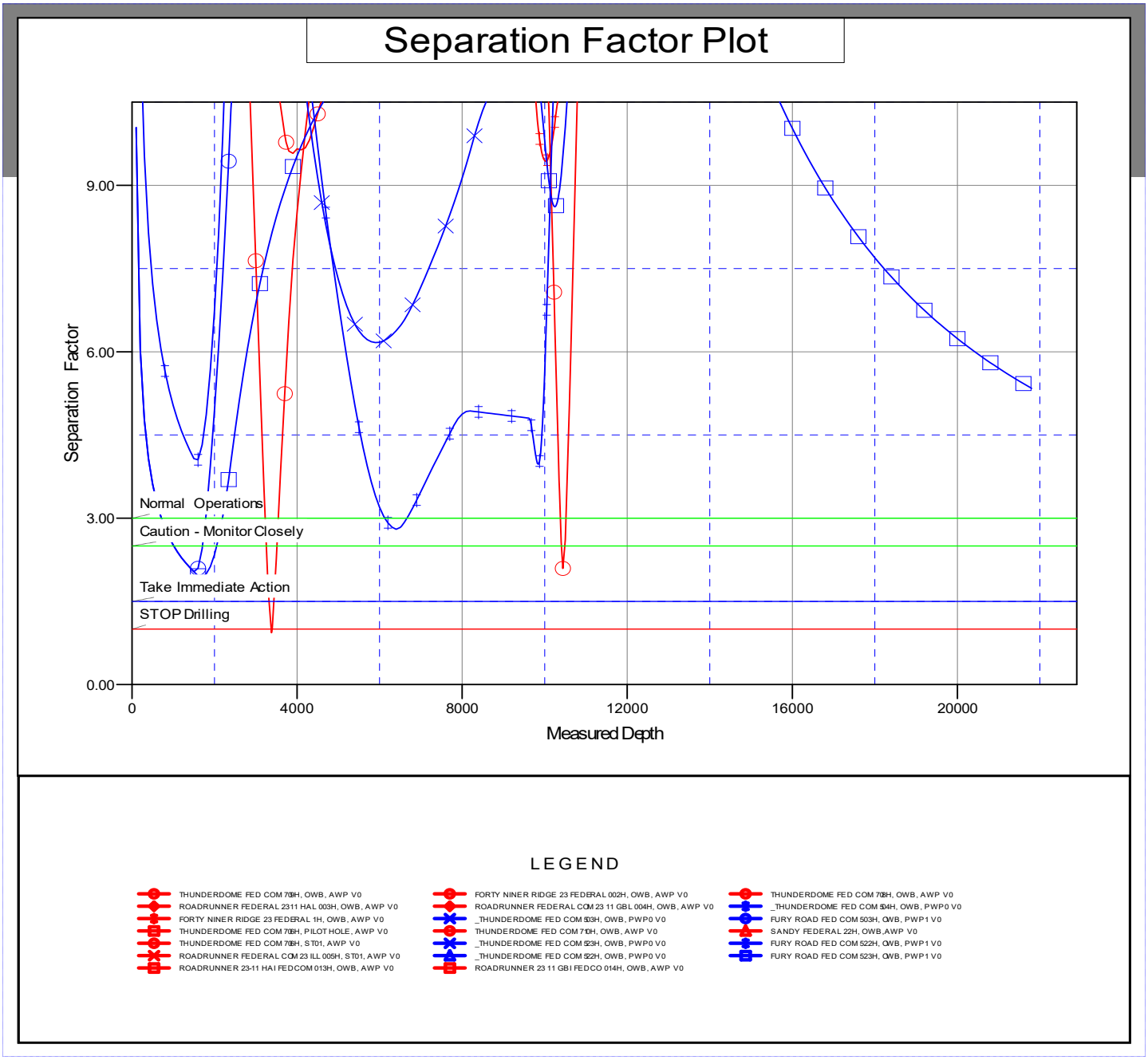
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Project:	ATLAS PROSPECT (DBW)	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Reference Site:	FURY ROAD PROJECT	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to KB @ 3292.0usft (NABORS X09)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FURY ROAD FED COM 504H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.26°



CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

DELAWARE BASIN WEST

ATLAS PROSPECT (DBW)
FURY ROAD PROJECT
FURY ROAD FED COM 504H

OWB

Plan: PWP0

Standard Planning Report

29 April, 2025

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Company:	DELAWARE BASIN WEST	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Project:	ATLAS PROSPECT (DBW)	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site:	FURY ROAD PROJECT	**North Reference:**	Grid
Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project ATLAS PROSPECT (DBW)

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site FURY ROAD PROJECT

Site Position:		**Northing:**	464,394.67 usft	**Latitude:**	32° 16' 32.942 N
From:	Map	**Easting:**	649,024.77 usft	**Longitude:**	103° 51' 4.153 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well FURY ROAD FED COM 504H

Well Position	**+N/-S**	0.0 usft	**Northing:**	469,015.26 usft	**Latitude:**	32° 17' 18.653 N
	+E/-W	0.0 usft	**Easting:**	649,347.85 usft	**Longitude:**	103° 51' 0.147 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,260.0 usft
Grid Convergence:		0.26 °				

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2024	2/17/2025	6.52	59.89	47,270.77422038

Design PWP0

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	174.66

Plan Survey Tool Program **Date** 4/28/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	23,275.3	PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR OWSG MWD + IFR1 + SAG +	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Company:	DELAWARE BASIN WEST	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Project:	ATLAS PROSPECT (DBW)	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site:	FURY ROAD PROJECT	**North Reference:**	Grid
Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,341.2	16.82	55.30	2,329.2	69.8	100.8	2.00	2.00	0.00	55.30	
6,533.1	16.82	55.30	6,341.7	760.4	1,098.4	0.00	0.00	0.00	0.00	
8,215.5	0.00	0.01	8,000.0	900.0	1,300.0	1.00	-1.00	0.00	180.00	
9,608.0	0.00	0.01	9,392.5	900.0	1,300.0	0.00	0.00	0.00	0.01	
10,358.0	90.00	183.00	9,870.0	423.2	1,275.0	12.00	12.00	0.00	183.00	
10,633.0	90.00	183.00	9,870.0	148.6	1,260.6	0.00	0.00	0.00	0.00	
10,762.7	90.00	180.41	9,870.0	19.0	1,256.8	2.00	0.00	-2.00	-90.00	
23,275.3	90.00	180.41	9,870.0	-12,493.3	1,167.8	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Company:	DELAWARE BASIN WEST	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Project:	ATLAS PROSPECT (DBW)	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site:	FURY ROAD PROJECT	**North Reference:**	Grid
Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	2.00	55.30	1,600.0	1.0	1.4	-0.9	2.00	2.00	0.00
1,700.0	4.00	55.30	1,699.8	4.0	5.7	-3.4	2.00	2.00	0.00
1,800.0	6.00	55.30	1,799.5	8.9	12.9	-7.7	2.00	2.00	0.00
1,900.0	8.00	55.30	1,898.7	15.9	22.9	-13.7	2.00	2.00	0.00
2,000.0	10.00	55.30	1,997.5	24.8	35.8	-21.3	2.00	2.00	0.00
2,100.0	12.00	55.30	2,095.6	35.6	51.5	-30.7	2.00	2.00	0.00
2,200.0	14.00	55.30	2,193.1	48.4	70.0	-41.7	2.00	2.00	0.00
2,300.0	16.00	55.30	2,289.6	63.2	91.2	-54.4	2.00	2.00	0.00
2,341.2	16.82	55.30	2,329.2	69.8	100.8	-60.1	2.00	2.00	0.00
2,400.0	16.82	55.30	2,385.4	79.5	114.8	-68.5	0.00	0.00	0.00
2,500.0	16.82	55.30	2,481.2	96.0	138.6	-82.6	0.00	0.00	0.00
2,600.0	16.82	55.30	2,576.9	112.4	162.4	-96.8	0.00	0.00	0.00
2,700.0	16.82	55.30	2,672.6	128.9	186.2	-111.0	0.00	0.00	0.00
2,800.0	16.82	55.30	2,768.3	145.4	210.0	-125.2	0.00	0.00	0.00
2,900.0	16.82	55.30	2,864.0	161.9	233.8	-139.4	0.00	0.00	0.00
3,000.0	16.82	55.30	2,959.8	178.3	257.6	-153.6	0.00	0.00	0.00
3,100.0	16.82	55.30	3,055.5	194.8	281.4	-167.8	0.00	0.00	0.00
3,200.0	16.82	55.30	3,151.2	211.3	305.2	-182.0	0.00	0.00	0.00
3,300.0	16.82	55.30	3,246.9	227.8	329.0	-196.1	0.00	0.00	0.00
3,400.0	16.82	55.30	3,342.6	244.2	352.8	-210.3	0.00	0.00	0.00
3,500.0	16.82	55.30	3,438.4	260.7	376.6	-224.5	0.00	0.00	0.00
3,600.0	16.82	55.30	3,534.1	277.2	400.4	-238.7	0.00	0.00	0.00
3,700.0	16.82	55.30	3,629.8	293.7	424.2	-252.9	0.00	0.00	0.00
3,800.0	16.82	55.30	3,725.5	310.1	448.0	-267.1	0.00	0.00	0.00
3,900.0	16.82	55.30	3,821.2	326.6	471.8	-281.3	0.00	0.00	0.00
4,000.0	16.82	55.30	3,917.0	343.1	495.6	-295.5	0.00	0.00	0.00
4,100.0	16.82	55.30	4,012.7	359.6	519.4	-309.7	0.00	0.00	0.00
4,200.0	16.82	55.30	4,108.4	376.0	543.2	-323.8	0.00	0.00	0.00
4,300.0	16.82	55.30	4,204.1	392.5	567.0	-338.0	0.00	0.00	0.00
4,400.0	16.82	55.30	4,299.8	409.0	590.7	-352.2	0.00	0.00	0.00
4,500.0	16.82	55.30	4,395.6	425.5	614.5	-366.4	0.00	0.00	0.00
4,600.0	16.82	55.30	4,491.3	441.9	638.3	-380.6	0.00	0.00	0.00
4,700.0	16.82	55.30	4,587.0	458.4	662.1	-394.8	0.00	0.00	0.00
4,800.0	16.82	55.30	4,682.7	474.9	685.9	-409.0	0.00	0.00	0.00
4,900.0	16.82	55.30	4,778.4	491.4	709.7	-423.2	0.00	0.00	0.00
5,000.0	16.82	55.30	4,874.2	507.8	733.5	-437.4	0.00	0.00	0.00
5,100.0	16.82	55.30	4,969.9	524.3	757.3	-451.5	0.00	0.00	0.00
5,200.0	16.82	55.30	5,065.6	540.8	781.1	-465.7	0.00	0.00	0.00

ConocoPhillips

Planning Report

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Company:	DELAWARE BASIN WEST	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Project:	ATLAS PROSPECT (DBW)	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site:	FURY ROAD PROJECT	**North Reference:**	Grid
Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	16.82	55.30	5,161.3	557.3	804.9	-479.9	0.00	0.00	0.00
5,400.0	16.82	55.30	5,257.0	573.7	828.7	-494.1	0.00	0.00	0.00
5,500.0	16.82	55.30	5,352.8	590.2	852.5	-508.3	0.00	0.00	0.00
5,600.0	16.82	55.30	5,448.5	606.7	876.3	-522.5	0.00	0.00	0.00
5,700.0	16.82	55.30	5,544.2	623.2	900.1	-536.7	0.00	0.00	0.00
5,800.0	16.82	55.30	5,639.9	639.6	923.9	-550.9	0.00	0.00	0.00
5,900.0	16.82	55.30	5,735.6	656.1	947.7	-565.0	0.00	0.00	0.00
6,000.0	16.82	55.30	5,831.4	672.6	971.5	-579.2	0.00	0.00	0.00
6,100.0	16.82	55.30	5,927.1	689.1	995.3	-593.4	0.00	0.00	0.00
6,200.0	16.82	55.30	6,022.8	705.5	1,019.1	-607.6	0.00	0.00	0.00
6,300.0	16.82	55.30	6,118.5	722.0	1,042.9	-621.8	0.00	0.00	0.00
6,400.0	16.82	55.30	6,214.2	738.5	1,066.7	-636.0	0.00	0.00	0.00
6,500.0	16.82	55.30	6,310.0	755.0	1,090.5	-650.2	0.00	0.00	0.00
6,533.1	16.82	55.30	6,341.7	760.4	1,098.4	-654.9	0.00	0.00	0.00
6,600.0	16.16	55.30	6,405.8	771.2	1,114.0	-664.2	1.00	-1.00	0.00
6,700.0	15.16	55.30	6,502.1	786.6	1,136.2	-677.4	1.00	-1.00	0.00
6,800.0	14.16	55.30	6,598.8	801.0	1,157.0	-689.8	1.00	-1.00	0.00
6,900.0	13.16	55.30	6,696.0	814.4	1,176.4	-701.4	1.00	-1.00	0.00
7,000.0	12.16	55.30	6,793.6	826.9	1,194.4	-712.1	1.00	-1.00	0.00
7,100.0	11.16	55.30	6,891.5	838.4	1,211.0	-722.0	1.00	-1.00	0.00
7,200.0	10.16	55.30	6,989.8	848.9	1,226.2	-731.1	1.00	-1.00	0.00
7,300.0	9.16	55.30	7,088.4	858.5	1,240.0	-739.3	1.00	-1.00	0.00
7,400.0	8.16	55.30	7,187.2	867.0	1,252.4	-746.7	1.00	-1.00	0.00
7,500.0	7.16	55.30	7,286.3	874.6	1,263.3	-753.2	1.00	-1.00	0.00
7,600.0	6.16	55.30	7,385.7	881.2	1,272.8	-758.9	1.00	-1.00	0.00
7,700.0	5.16	55.30	7,485.2	886.8	1,280.9	-763.7	1.00	-1.00	0.00
7,800.0	4.16	55.30	7,584.8	891.4	1,287.6	-767.7	1.00	-1.00	0.00
7,900.0	3.16	55.30	7,684.6	895.1	1,292.9	-770.8	1.00	-1.00	0.00
8,000.0	2.16	55.30	7,784.5	897.7	1,296.7	-773.1	1.00	-1.00	0.00
8,100.0	1.16	55.30	7,884.5	899.3	1,299.0	-774.5	1.00	-1.00	0.00
8,200.0	0.16	55.30	7,984.5	900.0	1,300.0	-775.1	1.00	-1.00	0.00
8,215.5	0.00	0.01	8,000.0	900.0	1,300.0	-775.1	1.00	-1.00	0.00
8,300.0	0.00	0.00	8,084.5	900.0	1,300.0	-775.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,184.5	900.0	1,300.0	-775.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,284.5	900.0	1,300.0	-775.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,384.5	900.0	1,300.0	-775.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,484.5	900.0	1,300.0	-775.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,584.5	900.0	1,300.0	-775.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,684.5	900.0	1,300.0	-775.1	0.00	0.00	0.00
9,000.0	0.00	0.00	8,784.5	900.0	1,300.0	-775.1	0.00	0.00	0.00
9,100.0	0.00	0.00	8,884.5	900.0	1,300.0	-775.1	0.00	0.00	0.00
9,200.0	0.00	0.00	8,984.5	900.0	1,300.0	-775.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,084.5	900.0	1,300.0	-775.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,184.5	900.0	1,300.0	-775.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,284.5	900.0	1,300.0	-775.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,384.5	900.0	1,300.0	-775.1	0.00	0.00	0.00
9,608.0	0.00	0.01	9,392.5	900.0	1,300.0	-775.1	0.00	0.00	0.00
9,700.0	11.04	183.00	9,483.9	891.2	1,299.5	-766.4	12.00	12.00	0.00
9,800.0	23.04	183.00	9,579.3	862.0	1,298.0	-737.4	12.00	12.00	0.00
9,900.0	35.04	183.00	9,666.6	813.6	1,295.5	-689.5	12.00	12.00	0.00
10,000.0	47.04	183.00	9,741.9	748.2	1,292.0	-624.7	12.00	12.00	0.00
10,100.0	59.04	183.00	9,801.9	668.5	1,287.9	-545.7	12.00	12.00	0.00
10,200.0	71.04	183.00	9,844.0	578.1	1,283.1	-456.2	12.00	12.00	0.00
10,300.0	83.04	183.00	9,866.4	481.0	1,278.0	-360.0	12.00	12.00	0.00

ConocoPhillips

Planning Report

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Project:	ATLAS PROSPECT (DBW)	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site:	FURY ROAD PROJECT	**North Reference:**	Grid
Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,358.0	90.00	183.00	9,870.0	423.2	1,275.0	-302.7	12.00	12.00	0.00
10,400.0	90.00	183.00	9,870.0	381.3	1,272.8	-261.2	0.00	0.00	0.00
10,500.0	90.00	183.00	9,870.0	281.4	1,267.6	-162.2	0.00	0.00	0.00
10,600.0	90.00	183.00	9,870.0	181.6	1,262.3	-63.3	0.00	0.00	0.00
10,633.0	90.00	183.00	9,870.0	148.6	1,260.6	-30.6	0.00	0.00	0.00
10,700.0	90.00	181.66	9,870.0	81.7	1,257.9	35.8	2.00	0.00	-2.00
10,762.7	90.00	180.41	9,870.0	19.0	1,256.8	98.1	2.00	0.00	-2.00
10,800.0	90.00	180.41	9,870.0	-18.3	1,256.5	135.2	0.00	0.00	0.00
10,900.0	90.00	180.41	9,870.0	-118.3	1,255.8	234.7	0.00	0.00	0.00
11,000.0	90.00	180.41	9,870.0	-218.3	1,255.1	334.2	0.00	0.00	0.00
11,100.0	90.00	180.41	9,870.0	-318.3	1,254.4	433.7	0.00	0.00	0.00
11,200.0	90.00	180.41	9,870.0	-418.3	1,253.7	533.2	0.00	0.00	0.00
11,300.0	90.00	180.41	9,870.0	-518.3	1,252.9	632.7	0.00	0.00	0.00
11,400.0	90.00	180.41	9,870.0	-618.3	1,252.2	732.2	0.00	0.00	0.00
11,500.0	90.00	180.41	9,870.0	-718.3	1,251.5	831.7	0.00	0.00	0.00
11,600.0	90.00	180.41	9,870.0	-818.3	1,250.8	931.2	0.00	0.00	0.00
11,700.0	90.00	180.41	9,870.0	-918.3	1,250.1	1,030.7	0.00	0.00	0.00
11,800.0	90.00	180.41	9,870.0	-1,018.3	1,249.4	1,130.2	0.00	0.00	0.00
11,900.0	90.00	180.41	9,870.0	-1,118.3	1,248.7	1,229.7	0.00	0.00	0.00
12,000.0	90.00	180.41	9,870.0	-1,218.3	1,248.0	1,329.2	0.00	0.00	0.00
12,100.0	90.00	180.41	9,870.0	-1,318.3	1,247.3	1,428.7	0.00	0.00	0.00
12,200.0	90.00	180.41	9,870.0	-1,418.3	1,246.6	1,528.2	0.00	0.00	0.00
12,300.0	90.00	180.41	9,870.0	-1,518.3	1,245.8	1,627.7	0.00	0.00	0.00
12,400.0	90.00	180.41	9,870.0	-1,618.3	1,245.1	1,727.2	0.00	0.00	0.00
12,500.0	90.00	180.41	9,870.0	-1,718.3	1,244.4	1,826.7	0.00	0.00	0.00
12,600.0	90.00	180.41	9,870.0	-1,818.3	1,243.7	1,926.1	0.00	0.00	0.00
12,700.0	90.00	180.41	9,870.0	-1,918.3	1,243.0	2,025.6	0.00	0.00	0.00
12,800.0	90.00	180.41	9,870.0	-2,018.3	1,242.3	2,125.1	0.00	0.00	0.00
12,900.0	90.00	180.41	9,870.0	-2,118.3	1,241.6	2,224.6	0.00	0.00	0.00
13,000.0	90.00	180.41	9,870.0	-2,218.3	1,240.9	2,324.1	0.00	0.00	0.00
13,100.0	90.00	180.41	9,870.0	-2,318.3	1,240.2	2,423.6	0.00	0.00	0.00
13,200.0	90.00	180.41	9,870.0	-2,418.3	1,239.4	2,523.1	0.00	0.00	0.00
13,300.0	90.00	180.41	9,870.0	-2,518.3	1,238.7	2,622.6	0.00	0.00	0.00
13,400.0	90.00	180.41	9,870.0	-2,618.3	1,238.0	2,722.1	0.00	0.00	0.00
13,500.0	90.00	180.41	9,870.0	-2,718.3	1,237.3	2,821.6	0.00	0.00	0.00
13,600.0	90.00	180.41	9,870.0	-2,818.3	1,236.6	2,921.1	0.00	0.00	0.00
13,700.0	90.00	180.41	9,870.0	-2,918.3	1,235.9	3,020.6	0.00	0.00	0.00
13,800.0	90.00	180.41	9,870.0	-3,018.3	1,235.2	3,120.1	0.00	0.00	0.00
13,900.0	90.00	180.41	9,870.0	-3,118.3	1,234.5	3,219.6	0.00	0.00	0.00
14,000.0	90.00	180.41	9,870.0	-3,218.3	1,233.8	3,319.1	0.00	0.00	0.00
14,100.0	90.00	180.41	9,870.0	-3,318.2	1,233.1	3,418.6	0.00	0.00	0.00
14,200.0	90.00	180.41	9,870.0	-3,418.2	1,232.3	3,518.1	0.00	0.00	0.00
14,300.0	90.00	180.41	9,870.0	-3,518.2	1,231.6	3,617.6	0.00	0.00	0.00
14,400.0	90.00	180.41	9,870.0	-3,618.2	1,230.9	3,717.1	0.00	0.00	0.00
14,500.0	90.00	180.41	9,870.0	-3,718.2	1,230.2	3,816.6	0.00	0.00	0.00
14,600.0	90.00	180.41	9,870.0	-3,818.2	1,229.5	3,916.1	0.00	0.00	0.00
14,700.0	90.00	180.41	9,870.0	-3,918.2	1,228.8	4,015.6	0.00	0.00	0.00
14,800.0	90.00	180.41	9,870.0	-4,018.2	1,228.1	4,115.1	0.00	0.00	0.00
14,900.0	90.00	180.41	9,870.0	-4,118.2	1,227.4	4,214.6	0.00	0.00	0.00
15,000.0	90.00	180.41	9,870.0	-4,218.2	1,226.7	4,314.1	0.00	0.00	0.00
15,100.0	90.00	180.41	9,870.0	-4,318.2	1,225.9	4,413.6	0.00	0.00	0.00
15,200.0	90.00	180.41	9,870.0	-4,418.2	1,225.2	4,513.1	0.00	0.00	0.00
15,300.0	90.00	180.41	9,870.0	-4,518.2	1,224.5	4,612.6	0.00	0.00	0.00
15,400.0	90.00	180.41	9,870.0	-4,618.2	1,223.8	4,712.1	0.00	0.00	0.00

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Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Company:	DELAWARE BASIN WEST	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Project:	ATLAS PROSPECT (DBW)	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site:	FURY ROAD PROJECT	**North Reference:**	Grid
Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,500.0	90.00	180.41	9,870.0	-4,718.2	1,223.1	4,811.6	0.00	0.00	0.00
15,600.0	90.00	180.41	9,870.0	-4,818.2	1,222.4	4,911.1	0.00	0.00	0.00
15,700.0	90.00	180.41	9,870.0	-4,918.2	1,221.7	5,010.6	0.00	0.00	0.00
15,800.0	90.00	180.41	9,870.0	-5,018.2	1,221.0	5,110.1	0.00	0.00	0.00
15,900.0	90.00	180.41	9,870.0	-5,118.2	1,220.3	5,209.6	0.00	0.00	0.00
16,000.0	90.00	180.41	9,870.0	-5,218.2	1,219.5	5,309.1	0.00	0.00	0.00
16,100.0	90.00	180.41	9,870.0	-5,318.2	1,218.8	5,408.6	0.00	0.00	0.00
16,200.0	90.00	180.41	9,870.0	-5,418.2	1,218.1	5,508.1	0.00	0.00	0.00
16,300.0	90.00	180.41	9,870.0	-5,518.2	1,217.4	5,607.5	0.00	0.00	0.00
16,400.0	90.00	180.41	9,870.0	-5,618.2	1,216.7	5,707.0	0.00	0.00	0.00
16,500.0	90.00	180.41	9,870.0	-5,718.2	1,216.0	5,806.5	0.00	0.00	0.00
16,600.0	90.00	180.41	9,870.0	-5,818.2	1,215.3	5,906.0	0.00	0.00	0.00
16,700.0	90.00	180.41	9,870.0	-5,918.2	1,214.6	6,005.5	0.00	0.00	0.00
16,800.0	90.00	180.41	9,870.0	-6,018.2	1,213.9	6,105.0	0.00	0.00	0.00
16,900.0	90.00	180.41	9,870.0	-6,118.2	1,213.2	6,204.5	0.00	0.00	0.00
17,000.0	90.00	180.41	9,870.0	-6,218.2	1,212.4	6,304.0	0.00	0.00	0.00
17,100.0	90.00	180.41	9,870.0	-6,318.2	1,211.7	6,403.5	0.00	0.00	0.00
17,200.0	90.00	180.41	9,870.0	-6,418.2	1,211.0	6,503.0	0.00	0.00	0.00
17,300.0	90.00	180.41	9,870.0	-6,518.2	1,210.3	6,602.5	0.00	0.00	0.00
17,400.0	90.00	180.41	9,870.0	-6,618.2	1,209.6	6,702.0	0.00	0.00	0.00
17,500.0	90.00	180.41	9,870.0	-6,718.2	1,208.9	6,801.5	0.00	0.00	0.00
17,600.0	90.00	180.41	9,870.0	-6,818.2	1,208.2	6,901.0	0.00	0.00	0.00
17,700.0	90.00	180.41	9,870.0	-6,918.2	1,207.5	7,000.5	0.00	0.00	0.00
17,800.0	90.00	180.41	9,870.0	-7,018.2	1,206.8	7,100.0	0.00	0.00	0.00
17,900.0	90.00	180.41	9,870.0	-7,118.2	1,206.0	7,199.5	0.00	0.00	0.00
18,000.0	90.00	180.41	9,870.0	-7,218.2	1,205.3	7,299.0	0.00	0.00	0.00
18,100.0	90.00	180.41	9,870.0	-7,318.1	1,204.6	7,398.5	0.00	0.00	0.00
18,200.0	90.00	180.41	9,870.0	-7,418.1	1,203.9	7,498.0	0.00	0.00	0.00
18,300.0	90.00	180.41	9,870.0	-7,518.1	1,203.2	7,597.5	0.00	0.00	0.00
18,400.0	90.00	180.41	9,870.0	-7,618.1	1,202.5	7,697.0	0.00	0.00	0.00
18,500.0	90.00	180.41	9,870.0	-7,718.1	1,201.8	7,796.5	0.00	0.00	0.00
18,600.0	90.00	180.41	9,870.0	-7,818.1	1,201.1	7,896.0	0.00	0.00	0.00
18,700.0	90.00	180.41	9,870.0	-7,918.1	1,200.4	7,995.5	0.00	0.00	0.00
18,800.0	90.00	180.41	9,870.0	-8,018.1	1,199.7	8,095.0	0.00	0.00	0.00
18,900.0	90.00	180.41	9,870.0	-8,118.1	1,198.9	8,194.5	0.00	0.00	0.00
19,000.0	90.00	180.41	9,870.0	-8,218.1	1,198.2	8,294.0	0.00	0.00	0.00
19,100.0	90.00	180.41	9,870.0	-8,318.1	1,197.5	8,393.5	0.00	0.00	0.00
19,200.0	90.00	180.41	9,870.0	-8,418.1	1,196.8	8,493.0	0.00	0.00	0.00
19,300.0	90.00	180.41	9,870.0	-8,518.1	1,196.1	8,592.5	0.00	0.00	0.00
19,400.0	90.00	180.41	9,870.0	-8,618.1	1,195.4	8,692.0	0.00	0.00	0.00
19,500.0	90.00	180.41	9,870.0	-8,718.1	1,194.7	8,791.5	0.00	0.00	0.00
19,600.0	90.00	180.41	9,870.0	-8,818.1	1,194.0	8,891.0	0.00	0.00	0.00
19,700.0	90.00	180.41	9,870.0	-8,918.1	1,193.3	8,990.5	0.00	0.00	0.00
19,800.0	90.00	180.41	9,870.0	-9,018.1	1,192.5	9,090.0	0.00	0.00	0.00
19,900.0	90.00	180.41	9,870.0	-9,118.1	1,191.8	9,189.5	0.00	0.00	0.00
20,000.0	90.00	180.41	9,870.0	-9,218.1	1,191.1	9,288.9	0.00	0.00	0.00
20,100.0	90.00	180.41	9,870.0	-9,318.1	1,190.4	9,388.4	0.00	0.00	0.00
20,200.0	90.00	180.41	9,870.0	-9,418.1	1,189.7	9,487.9	0.00	0.00	0.00
20,300.0	90.00	180.41	9,870.0	-9,518.1	1,189.0	9,587.4	0.00	0.00	0.00
20,400.0	90.00	180.41	9,870.0	-9,618.1	1,188.3	9,686.9	0.00	0.00	0.00
20,500.0	90.00	180.41	9,870.0	-9,718.1	1,187.6	9,786.4	0.00	0.00	0.00
20,600.0	90.00	180.41	9,870.0	-9,818.1	1,186.9	9,885.9	0.00	0.00	0.00
20,700.0	90.00	180.41	9,870.0	-9,918.1	1,186.2	9,985.4	0.00	0.00	0.00
20,800.0	90.00	180.41	9,870.0	-10,018.1	1,185.4	10,084.9	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Company:	DELAWARE BASIN WEST	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Project:	ATLAS PROSPECT (DBW)	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site:	FURY ROAD PROJECT	**North Reference:**	Grid
Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,900.0	90.00	180.41	9,870.0	-10,118.1	1,184.7	10,184.4	0.00	0.00	0.00
21,000.0	90.00	180.41	9,870.0	-10,218.1	1,184.0	10,283.9	0.00	0.00	0.00
21,100.0	90.00	180.41	9,870.0	-10,318.1	1,183.3	10,383.4	0.00	0.00	0.00
21,200.0	90.00	180.41	9,870.0	-10,418.1	1,182.6	10,482.9	0.00	0.00	0.00
21,300.0	90.00	180.41	9,870.0	-10,518.1	1,181.9	10,582.4	0.00	0.00	0.00
21,400.0	90.00	180.41	9,870.0	-10,618.1	1,181.2	10,681.9	0.00	0.00	0.00
21,500.0	90.00	180.41	9,870.0	-10,718.1	1,180.5	10,781.4	0.00	0.00	0.00
21,600.0	90.00	180.41	9,870.0	-10,818.1	1,179.8	10,880.9	0.00	0.00	0.00
21,700.0	90.00	180.41	9,870.0	-10,918.1	1,179.0	10,980.4	0.00	0.00	0.00
21,800.0	90.00	180.41	9,870.0	-11,018.1	1,178.3	11,079.9	0.00	0.00	0.00
21,900.0	90.00	180.41	9,870.0	-11,118.1	1,177.6	11,179.4	0.00	0.00	0.00
22,000.0	90.00	180.41	9,870.0	-11,218.1	1,176.9	11,278.9	0.00	0.00	0.00
22,100.0	90.00	180.41	9,870.0	-11,318.0	1,176.2	11,378.4	0.00	0.00	0.00
22,200.0	90.00	180.41	9,870.0	-11,418.0	1,175.5	11,477.9	0.00	0.00	0.00
22,300.0	90.00	180.41	9,870.0	-11,518.0	1,174.8	11,577.4	0.00	0.00	0.00
22,400.0	90.00	180.41	9,870.0	-11,618.0	1,174.1	11,676.9	0.00	0.00	0.00
22,500.0	90.00	180.41	9,870.0	-11,718.0	1,173.4	11,776.4	0.00	0.00	0.00
22,600.0	90.00	180.41	9,870.0	-11,818.0	1,172.6	11,875.9	0.00	0.00	0.00
22,700.0	90.00	180.41	9,870.0	-11,918.0	1,171.9	11,975.4	0.00	0.00	0.00
22,800.0	90.00	180.41	9,870.0	-12,018.0	1,171.2	12,074.9	0.00	0.00	0.00
22,900.0	90.00	180.41	9,870.0	-12,118.0	1,170.5	12,174.4	0.00	0.00	0.00
23,000.0	90.00	180.41	9,870.0	-12,218.0	1,169.8	12,273.9	0.00	0.00	0.00
23,100.0	90.00	180.41	9,870.0	-12,318.0	1,169.1	12,373.4	0.00	0.00	0.00
23,200.0	90.00	180.41	9,870.0	-12,418.0	1,168.4	12,472.9	0.00	0.00	0.00
23,275.3	90.00	180.41	9,870.0	-12,493.3	1,167.8	12,547.8	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PP2_FURY ROAD 504H	0.00	0.00	9,870.0	-1,971.4	1,118.5	467,043.88	650,466.34	32° 16' 59.094 N	103° 50' 47.222 W
- plan misses target center by 124.1usft at 12754.0usft MD (9870.0 TVD, -1972.3 N, 1242.6 E)									
- Circle (radius 50.0)									
PBHL_FURY ROAD 504	0.00	359.70	9,870.0	-12,493.9	1,168.8	456,521.31	650,516.67	32° 15' 14.961 N	103° 50' 47.192 W
- plan misses target center by 1.1usft at 23275.3usft MD (9870.0 TVD, -12493.3 N, 1167.8 E)									
- Rectangle (sides W100.0 H13,064.8 D20.0)									
FTP/PP1_FURY ROAD	0.00	0.00	9,870.0	572.5	1,099.8	469,587.76	650,447.68	32° 17' 24.269 N	103° 50' 47.305 W
- plan misses target center by 183.9usft at 10220.7usft MD (9850.3 TVD, 558.5 N, 1282.1 E)									
- Circle (radius 50.0)									
PP3_FURY ROAD 504H	0.00	0.00	9,870.0	-4,614.5	1,124.9	464,400.72	650,472.73	32° 16' 32.937 N	103° 50' 47.287 W
- plan misses target center by 99.0usft at 15397.0usft MD (9870.0 TVD, -4615.2 N, 1223.8 E)									
- Circle (radius 50.0)									
LTP_FURY ROAD 504H	90.00	179.66	9,870.0	-12,443.9	1,168.5	456,571.31	650,516.35	32° 15' 15.456 N	103° 50' 47.193 W
- plan misses target center by 25.9usft at 23200.0usft MD (9870.0 TVD, -12418.0 N, 1168.4 E)									
- Circle (radius 50.0)									

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well FURY ROAD FED COM 504H
Company:	DELAWARE BASIN WEST	**TVD Reference:**	KB @ 3292.0usft (NABORS X09)
Project:	ATLAS PROSPECT (DBW)	**MD Reference:**	KB @ 3292.0usft (NABORS X09)
Site:	FURY ROAD PROJECT	**North Reference:**	Grid
Well:	FURY ROAD FED COM 504H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Casing Points

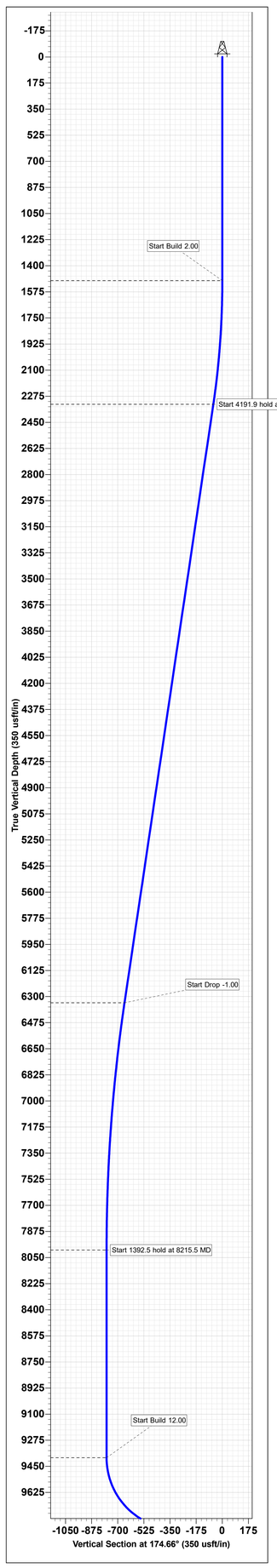
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
23,275.4	9,870.0	5-1/2" Production Casing	5-1/2	6

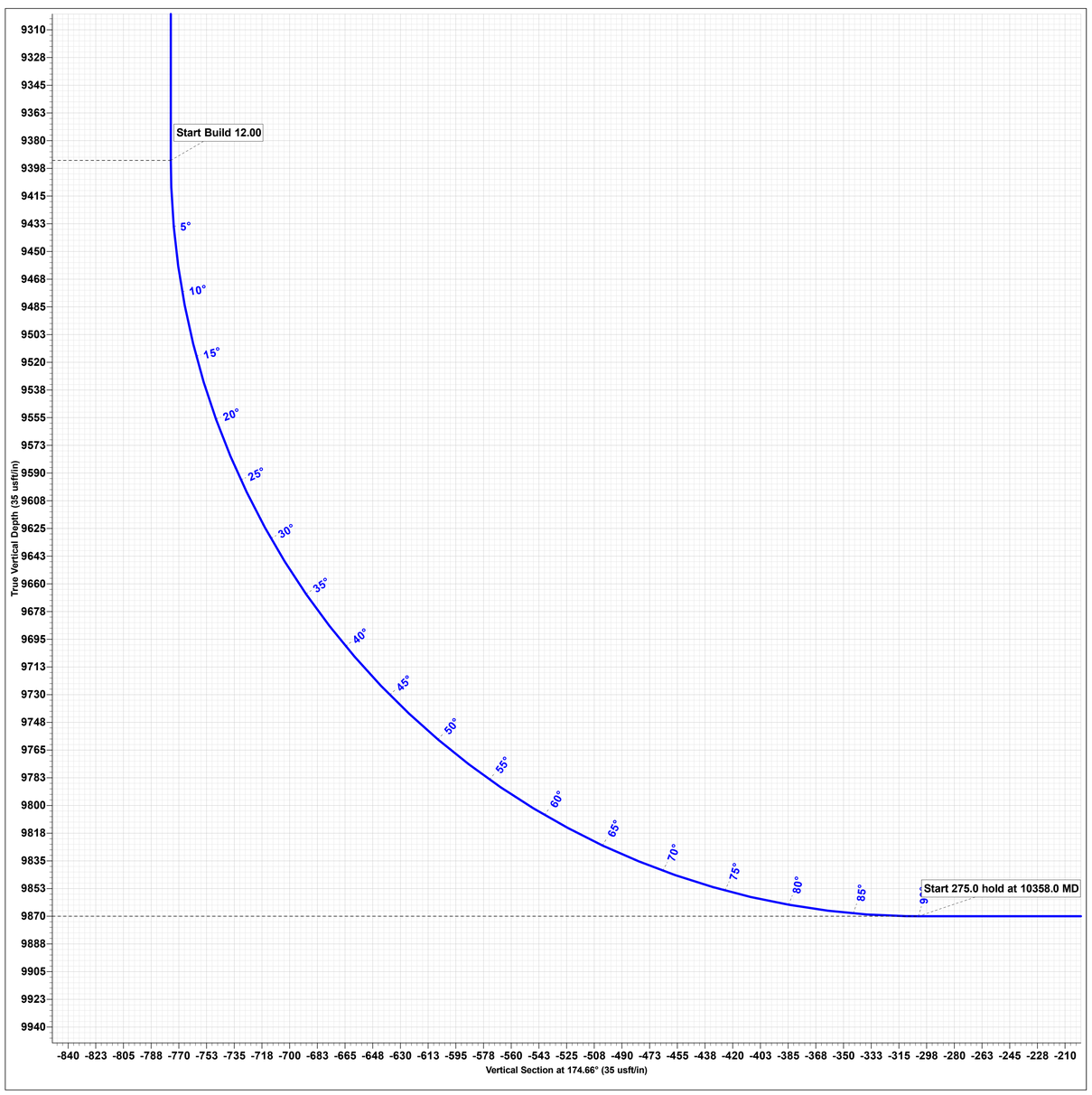
ConocoPhillips

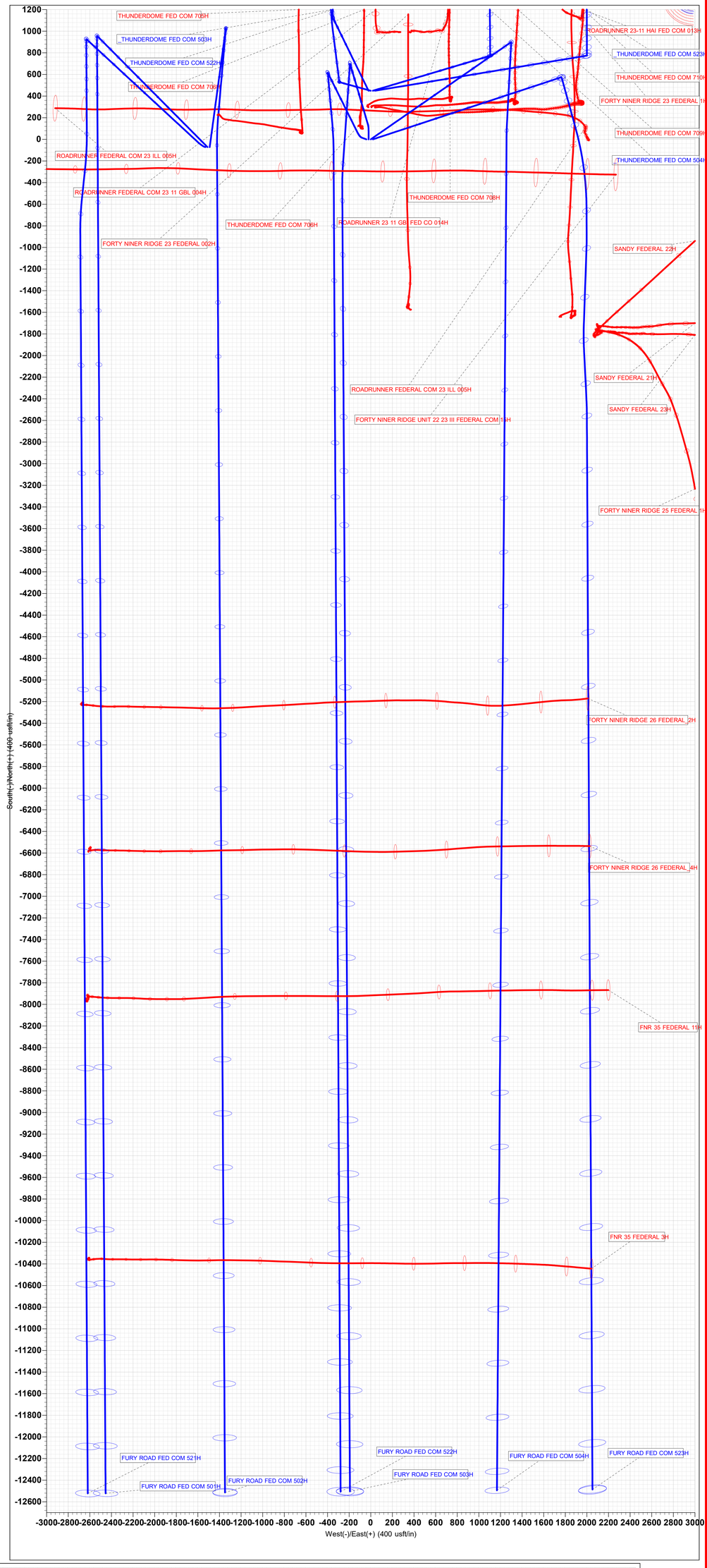
Project:	ATLAS PROSPECT (DBW)
Site:	FURY ROAD PROJECT
Well:	FURY ROAD FED COM 504H
Wellbore:	OWB
Design:	PWP0

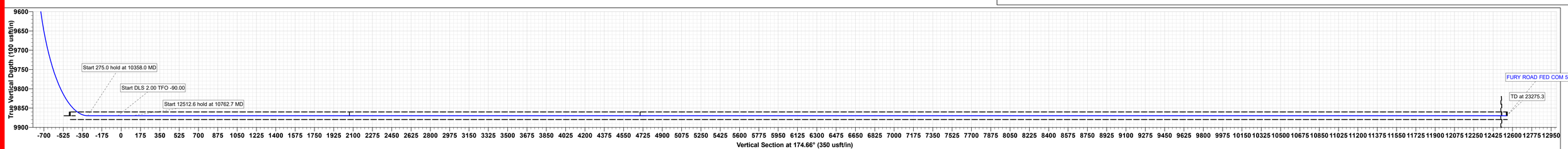
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0
2341.2	16.82	55.30	2329.2	69.8	100.8	2.00	55.30	-60.1
6533.1	16.82	55.30	6341.7	760.4	1098.4	0.00	0.00	-654.9
8215.5	0.00	0.00	8000.0	900.0	1300.0	1.00	180.00	-775.1
9608.0	0.00	0.00	9392.5	900.0	1300.0	0.00	0.00	-775.1
10358.0	90.00	183.00	9870.0	423.2	1275.0	12.00	183.00	-302.7
10633.0	90.00	183.00	9870.0	148.6	1260.6	0.00	0.00	-30.6
10762.7	90.00	180.41	9870.0	19.0	1256.8	2.00	-90.00	98.1
23275.3	90.00	180.41	9870.0	-12493.3	1167.8	0.00	0.00	12547.8









PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	FURY ROAD FED COM 504H
LOCATION:	Section 23, T.23 S., R.30 E., NMP
COUNTY:	Eddy County, New Mexico

COA

H_2S	○ No		◉ Yes	
Potash / WIPP	○ None	○ Secretary	◉ R-111-Q	☐ Open Annulus ☐ WIPP
	3-String Design: Open Production Casing Annulus			
Cave / Karst	◉ Low	○ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☑ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☑ COM	☐ Unit
Waste Prev.	○ Self-Certification	◉ Waste Min. Plan	○ APD Submitted prior to 06/10/2024	
Additional Language	☑ Flex Hose ☐ Four-String	☐ Casing Clearance ☑ Offline Cementing	☐ Pilot Hole ☐ Fluid-Filled	☑ Break Testing

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

APD is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the updated order.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **108 feet per BLM Geologist** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours**

 Approval Date: 10/24/2025

or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)

c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

Option 1 (Primary + Post Frac Bradenhead):

- **A monitored open annulus will be incorporated during completion by leaving the Intermediate x Production annulus un-cemented and monitored inside the Intermediate String.** Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within **180 days.**

Operator has proposed to pump down **intermediate x production** annulus post completion. **Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the intermediate 2/production casing to surface after the second stage BH to verify TOC.** Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry during second stage bradenhead when running Echo-meter if cement is required to surface. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. **Submit results to the BLM. Pressure monitoring device and Pressure Safety Valves must be installed at surface on both the intermediate annulus and the production annulus for the life of the well.**

In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and (575-361-2822 Eddy County).

- **After bradenhead mentioned above** cement should tie-back **500 feet** into the previous casing but not higher than USGS Marker Bed No. 126. **Operator must verify top of cement per R-111-Q requirements.** Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

    - Cement should tie-back **500 feet** into the previous casing but not higher than USGS Marker Bed No. 126. **Operator must verify top of cement per R-111-Q requirements.** Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
    e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM_NM_CFO_DrillingNotifications@BLM.GOV**; (575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
    a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure

rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).

b. When the operator proposes to set surface casing with Spudder Rig
   i. Notify the BLM when moving in and removing the Spudder Rig.
   ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
   iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing

integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
iii. Manufacturer representative shall install the test plug for the initial BOP test.
iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
   i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
   ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
   iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
   iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M

BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

v. The results of the test shall be reported to the appropriate BLM office.
vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JS 10/24/2025

CONOCOPHILLIPS
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

a. The hazards and characteristics of hydrogen sulfide (H_2S).
b. The proper use and maintenance of personal protective equipment and life support systems.
c. The proper use of H_2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

a. The effects of H2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
c. The contents and requirements of the H_2S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H_2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H_2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H2S. If H2S greater than 100 ppm is encountered in the gas stream we will shut in and install H2S equipment.

a. Well Control Equipment:
Flare line.
Choke manifold with remotely operated choke.
Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

b. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.

c. H2S detection and monitoring equipment:
2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.

d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.

f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

g. Communication:
Company vehicles equipped with cellular telephone.

CONOCOPHILLIPS has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.

W A R N I N G

YOU ARE ENTERING AN H_2S AREA
AUTHORIZED PERSONNEL ONLY

1. ***BEARDS OR CONTACT LENSES NOT ALLOWED***
2. ***HARD HATS REQUIRED***
3. ***SMOKING IN DESIGNATED AREAS ONLY***
4. ***BE WIND CONSCIOUS AT ALL TIMES***
5. ***CK WITH CONOCOPHILLIPS FOREMAN AT MAIN OFFICE***

CONOCOPHILLIPS

1-575-748-6940

EMERGENCY CALL LIST

	OFFICE	MOBILE
CONOCOPHILLIPS OFFICE	575-748-6940	
CHAD GREGORY	432-683-7443	432-238-5840
KEVIN HAMMONS	432-688-6643	337-962-8823

EMERGENCY RESPONSE NUMBERS

	OFFICE
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451

CONOCOPHILLIPS

Rig Plat & Closed Loop Equipment Diagram

Well pad will be as follows: 785' x 850.02' with cellar in center of pad

425.01'

Flare Lines will be from both Choke Manifold & Separator to edge of location.

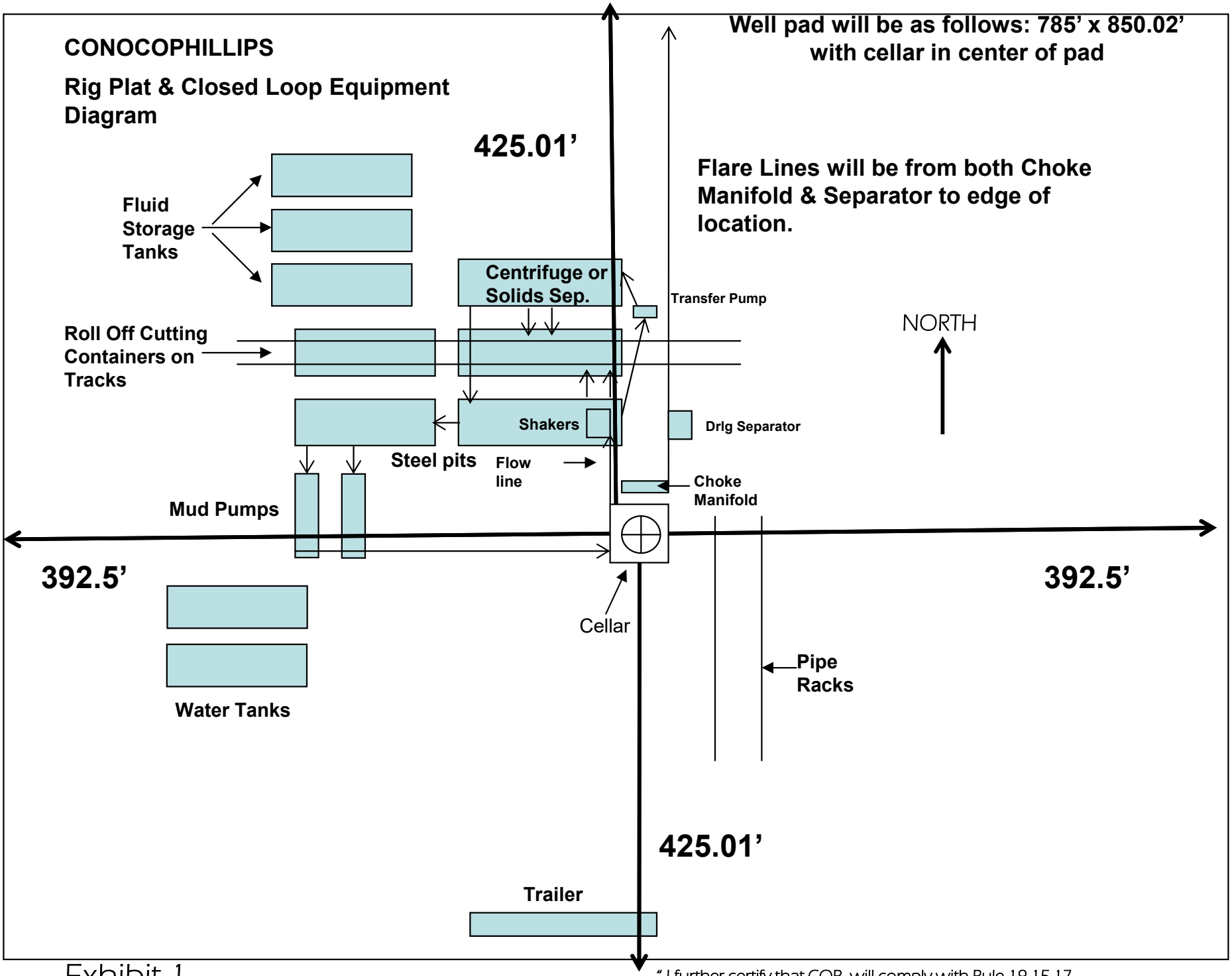


Exhibit 1

" I further certify that COP will comply with Rule 19.15.17 NMAC by using a Closed Loop System."

ConocoPhillips Company - Fury Road Federal Com 504H

1. Geologic Formations

TVD of target	9,870' EOL	Pilot hole depth	NA
MD at TD:	23,275'	Deepest expected fresh water:	103'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	142	Water	
Top of Salt	485	Salt	
USGS Marker Bed 126	1285	Salt	
Base of Salt	3635	Salt Water	
Lamar	3803	Salt Water	
Bell Canyon	3885	Oil/Gas	
Cherry Canyon	4822	Oil/Gas	
Brushy Canyon	6097	Oil/Gas	
Bone Spring	7689	Oil/Gas	
1st Bone Spring Sand	8739	Oil/Gas	
2nd Bone Spring Sand	9470	Target	

Potash well archetype: 3-String Design Open Production Casing Annulus (Figure B). Sundry aims to comply with R-111-Q as passed on 5/10/2024.

2. Casing Program

Hole Size	Casing Interval From	Casing Interval To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17.5”	0	250	13.375”	54.5	J55	BTC	9.88	1.74	66.72
12.25”	0	3725	9.625”	40	L80-IC	BTC	2.00	1.48	6.36
7.875	0	23,275	5.5”	23	P110-CY	TXP BTC	2.98	3.74	3.21
						BLM Minimum Safety Factor	1.125	1	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing.to mitigate collapse. Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface.
All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172

ConocoPhillips Company - Fury Road Federal Com 504H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2nd string set 100' to 600' below the base of salt?	Y
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

ConocoPhillips Company - Fury Road Federal Com 504H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	90	13.5	1.75	9.21	12	Lead: Class C
	179	14.8	1.35	6.8	8	Tail: Class C
Inter.	720	12.8	1.8	9.21	12	Lead: Class C
	351	14.8	1.34	6.52	8	Tail: Class C
Prod.	690	10.2	2.98	14.92	72	Lead: Tuned Light
	1640	13.2	1.42	7.45	19	Tail: Class H

Intermediate #1 Salt string cemented to surface. Intermediate cement job to be performed offline. Drill out to wait for 500PSI compressive strength.

Production long string cemented leaving Brushy Canyon Delaware Mountain group open as a relief zone. Section to be monitored during completions, and then Bradenhead cemented after completion is complete within 180 days to tie back.

Casing String	TOC	% Excess
Surface	0’	50%
1st Intermediate	0’	50%
Production	4,725'	0% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Fury Road Federal Com 504H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
Y	A variance is requested for the use of BOPE break testing on intermediate skids (in accordance with the 30 day full BOPE test requirements).

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
12-1/4”	13-5/8”	5M	Annular	x	2500 psi
			Blind Ram		5M
			Pipe Ram		
			Double Ram		
			Other*		
7-7/8”	13-5/8”	10M	Annular	x	50% testing pressure
			Blind Ram	x	10M
			Pipe Ram	x	
			Double Ram		
			Other*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR Part 3170 Subpart 3172.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
	N Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per 43 CFR Part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	9-5/8" Int shoe	Saturated Brine	9 - 10	28-34	N/C
9-5/8" Int shoe	Lateral TD	Cut Brine or OBM	8.6 - 9.5	28-34	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
N	CBL	Production casing
Y	Mud log	Intermediate shoe to TD
N	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4880 psi at 9870' TVD
Abnormal Temperature	NO 155 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR Part 3170 Subpart 3176. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

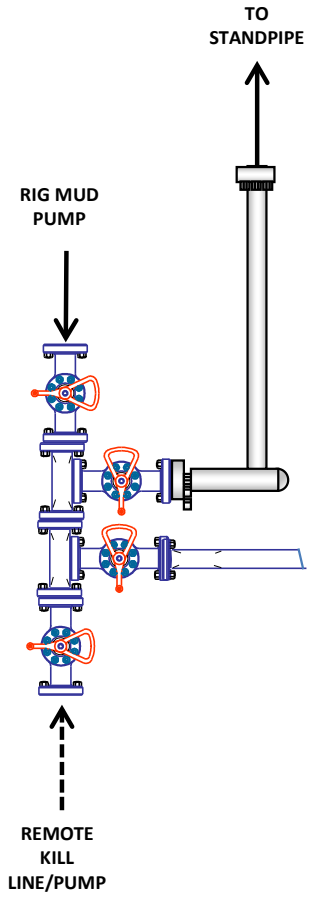
8. Other Facets of Operation

Y	Is it a walking operation?
Y	Is casing pre-set?
Y	Will the pad be batch drilled?

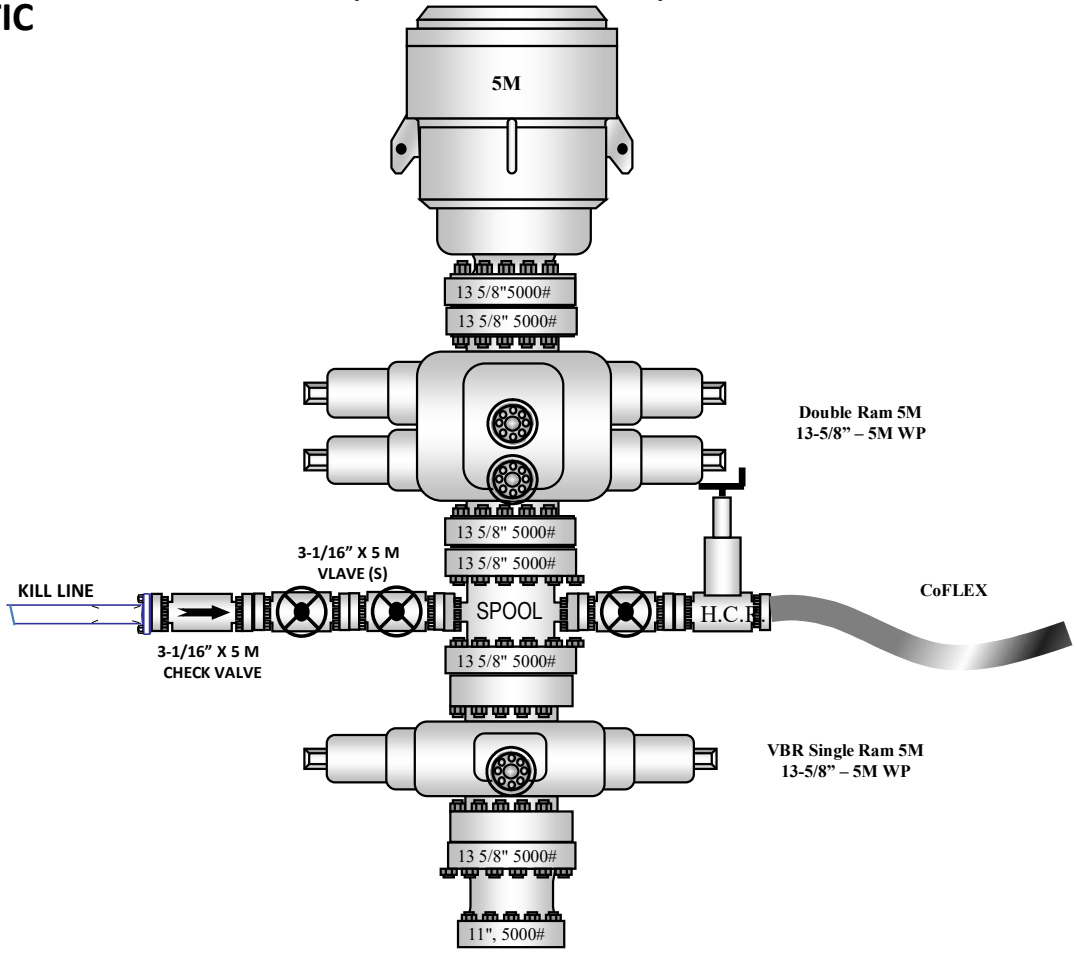
x	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

5M BOP Stack

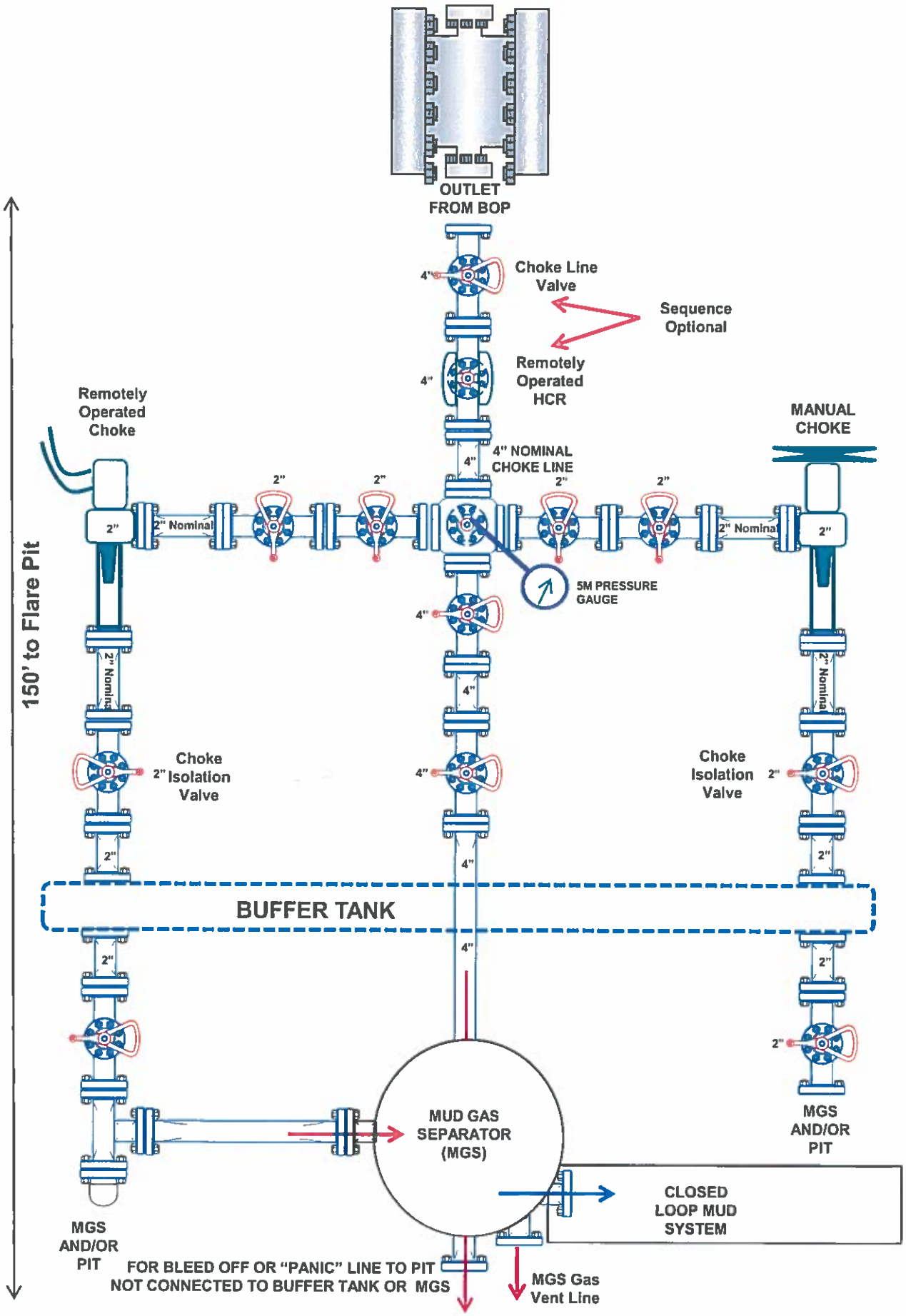
10M REMOTE KILL SCHEMATIC



5M BOP Stack
(2.5M Annular)

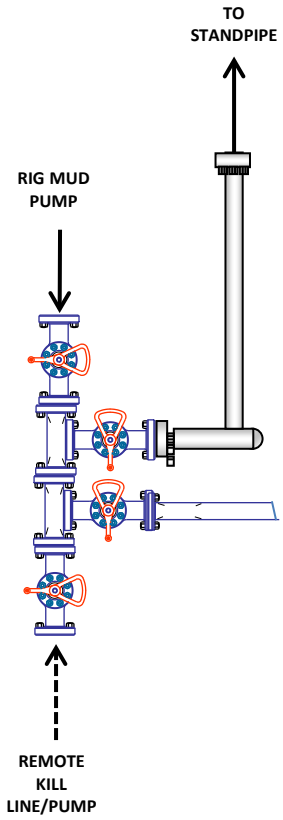


5M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)

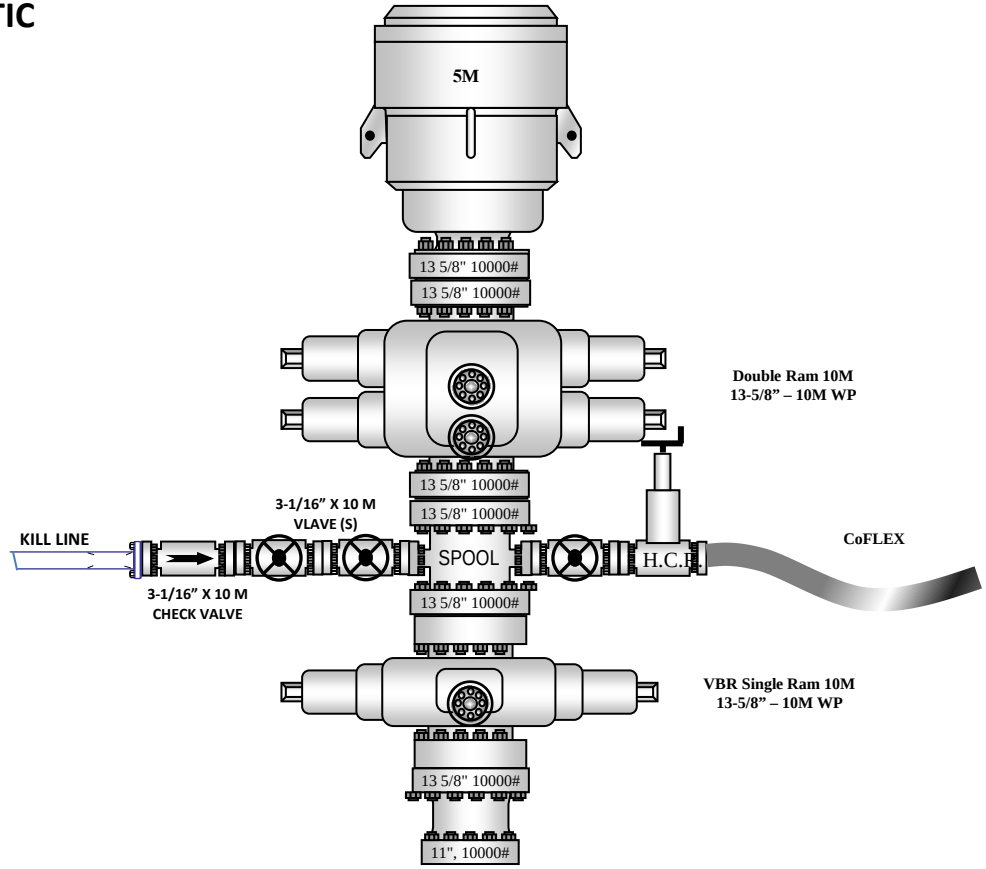


10M BOP Stack

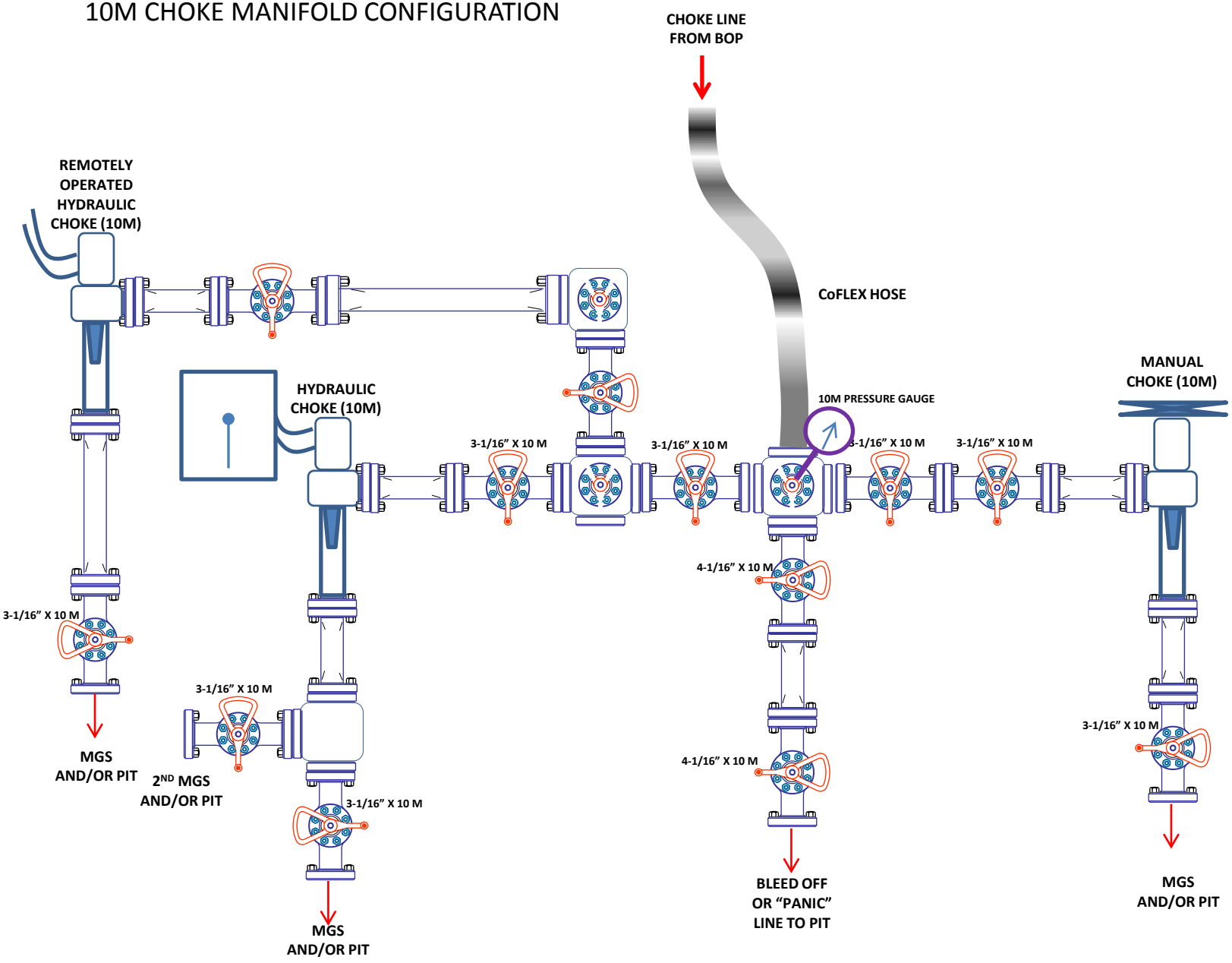
10M REMOTE KILL SCHEMATIC



10M BOP Stack
(5M Annular)



10M CHOKE MANIFOLD CONFIGURATION



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 521164
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☑	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 521164

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 521164
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
mreyes4	Cement is required to circulate on both surface and intermediate1 strings of casing.	10/29/2025
mreyes4	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	10/29/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	11/14/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	11/14/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	11/14/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	11/14/2025
ward.rikala	Operator must comply with all of the R-111-Q requirements.	11/14/2025